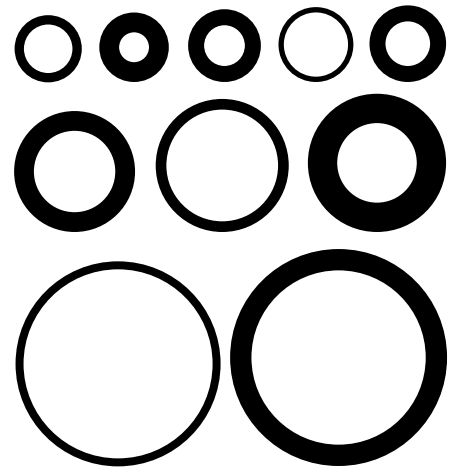




Special Size O-Rings

Dimensions & Illustrations





Special Size O-Rings



Precision Associates has the largest collection of "Standard" Size O-Rings in our industry. These standard O-Rings only start with the AS-568 O-Rings most seal companies produce. We also feature our extended standard sizes including PAI's 5/32" cross section series.

In addition to our 449 standard sizes, we make over 2,100 non-standard, or "Special" Size O-Rings. This publication contains our current selection of non-standard O-Rings. All O-Rings up to 3-1/2 inches are illustrated full size as a handy reference and quick identification tool. In the interest of conservation, larger O-Rings are listed in table form.

O-Rings are displayed in ascending order by Outside Diameter (OD). To assist in the quick location of sizes, we have included on each page heading the OD size range of the O-Rings shown on that page. Each O-Ring is identified dimensionally by its Cross Section (C/S) and Inside Diameter (ID). Digits left of the hyphen indicate the C/S dimension in thousandths of an inch. The digits right of the hyphen indicate the ID. All dimensions indicate the approximate dimensions expected to be produced by materials that shrink 2% (see PAI Technical Bulletin 111 for more information regarding shrinkage and its affect on dimensions and tolerances).

The O-Ring labels are not necessarily Part Numbers, only dimensional indicators. Please check with the factory for actual Part Numbers.

Among these 2,100+ sizes are hundreds that were originally produced as metric O-Rings. To facilitate display in this publication, we have converted the dimensions to their English equivalents. If you require actual metric dimensions, please refer to our O-Ring Engineer's Guide, available in our catalog, or at our website, or to the metric O-Ring search tool on the site.

If you're unable to locate the size you need, please check our website, or call PAI Customer Service. We add, on average, one new size each week, so our selection is always growing. If you still can't find the O-Ring size you require, we'll be happy to quote a new size. With our own in-house tool shop, we can quickly make a new size for you at a reasonable cost.

Although not included in these pages, PAI also makes 45° off-set parting line O-Rings. Please check with the factory for more information on these very special O-Rings.

To assure that the O-Ring illustrations are dimensionally correct, we have included a 4" scale at the bottom of each page. Please verify the dimensional accuracy by comparing a rule to these scales. If you have printed this publication from the internet and are experiencing size problems, make sure you have set Page Scaling to "None" before printing.

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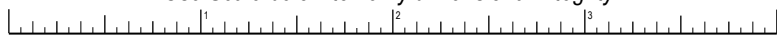
Special Size O-Rings



.012" — .250" O.D.

4-4	6-8	10-10	14-12	15-16	20-17	16-28	20-20	25-10	15-34	17-30	20-30	12-51
19-38	17-44	16-47	29-22	30-23	20-45	27-32	23-41	35-18	38-14	12-68	31-31	40-17
17-65	32-39	40-23	24-55	31-43	31-44	20-66	22-63	31-47	50-10	34-46	13-90	21-74
18-82	32-55	36-47	25-70	35-50	34-53	48-28	45-35	32-62	42-42	10-107	20-87	24-79
20-90	23-84	30-70	31-68	43-45	59-15	29-76	35-65	18-100	28-81	40-57	30-78	34-70
42-55	25-90	40-60	23-98	35-75	34-80	26-97	20-110	28-94	25-100	44-65	34-86	50-55
47-62	39-79	30-98	36-89	30-103	28-110	40-87	42-82	12-145	39-92	35-101	56-60	34-106
56-62	62-50	32-111	49-78	38-100	25-130	30-120	48-84	53-74	47-87	64-53	12-160	44-97
73-40	31-125	25-138	40-109	63-63	20-150	35-120	42-190	56-78	23-145	18-156	29-134	66-61
25-144	50-94	22-151	45-105	55-85	67-62	23-151	27-143	36-125	40-117	51-96	94-10	35-130
30-141	60-81	42-117	16-171	51-102	95-15	16-175	40-127	31-146	47-114	86-37	88-33	20-170
36-138	20-172	51-110	76-60	80-54	40-136	24-169	32-154	50-120	60-100	63-94	36-152	40-147
50-129	71-88	60-111	38-157	39-156	75-85	30-176	43-150	48-140	23-191	50-140	57-127	71-99
40-162	72-98	46-152	94-57	25-196	37-172	23-200	70-108	31-187	62-125	81-87	68-114	85-80

Use Scale below to verify dimensional integrity



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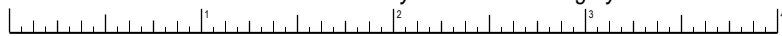
Special Size O-Rings



.252" — .376" O.D.

18-216	64-124	75-102	12-229	24-205	70-113	35-184	50-154	59-136	60-134	40-176	59-138
28-201	30-199	35-190	40-180	46-170	70-125	40-186	48-170	54-158	25-218	30-208	28-213
39-191	71-129	93-85	121-29	30-214	33-210	50-176	59-158	40-200	80-120	48-185	34-214
32-220	75-134	14-256	5-275	39-208	60-166	25-237	50-187	6-275	20-248	55-176	109-70
71-147	7-275	40-210	37-220	79-138	76-145	41-216	73-152	31-238	45-210	30-241	21-260
51-200	70-162	34-235	55-195	80-145	40-228	50-208	70-169	88-135	62-188	68-176	32-250
41-232	53-209	75-165	46-224	79-158	40-238	40-239	71-178	35-250	95-130	53-216	42-239
60-203	64-195	34-256	70-187	73-182	94-142	24-287	52-229	25-285	30-275	41-253	45-245
48-239	60-215	70-195	133-70	40-258	52-234	89-161	51-239	61-219	70-202	48-248	20-305
46-257	25-301	37-277	51-249	71-210	93-166	71-212	35-286	57-243	63-232	70-219	41-279
32-297	44-277	44-278	60-246	63-240	74-224	81-210	39-295	31-312	34-306	133-109	53-270

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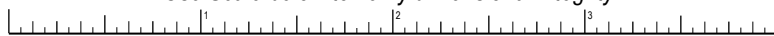
Special Size O-Rings



377." — .491" O.D.

38-301	47-283	35-308	28-323	45-290	70-240	68-246	79-224	53-278	104-176	42-301
60-265	71-243	36-315	50-287	139-109	8-372	74-241	71-248	35-322	74-244	78-236
91-210	98-197	31-332	77-240	36-323	49-297	59-279	46-307	50-300	43-315	72-259
71-262	39-327	28-351	45-317	52-306	70-270	80-250	63-285	78-255	59-295	55-304
51-313	70-275	71-275	26-366	76-266	42-335	52-316	60-301	76-271	76-277	50-330
139-152	35-361	70-291	35-362	39-354	71-290	30-373	118-197	60-314	45-346	93-250
90-259	30-380	95-251	122-200	63-319	71-304	151-146	40-370	64-322	72-309	38-377
78-298	45-364	70-315	71-317	60-340	70-320	55-351	86-290	39-386	74-317	139-187
46-375	78-312	50-369	125-219	16-438	52-367	31-410	57-358	70-334	31-413	40-395
160-155	32-413	60-360	43-395	95-291	43-397	110-264	105-275	39-408	63-365	71-349

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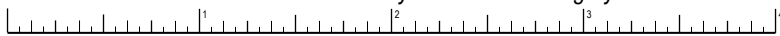
Special Size O-Rings



.492" — .568" O.D.

51-390	61-370	45-405	35-426	26-445	31-435	125-247	74-350	62-375	34-432
50-401	54-394	73-357	81-341	69-367	40-426	97-312	188-130	86-336	71-367
72-365	91-328	39-433	28-457	141-231	70-374	45-426	75-367	45-428	103-312
28-463	110-299	24-472	40-440	97-326	108-305	178-165	81-361	62-400	80-364
50-426	30-468	40-449	75-379	156-218	81-369	57-418	103-326	76-382	41-453
59-417	70-395	80-375	36-465	42-454	75-388	40-459	53-433	87-336	46-450
76-390	46-453	26-497	39-472	52-447	59-433	20-515	75-405	30-496	25-507
95-369	80-400	93-375	140-281	91-380	40-484	53-458	80-406	71-425	50-468

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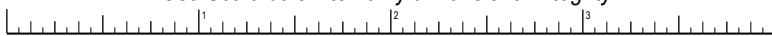
Special Size O-Rings



.570" — .641" O.D.

39-492	164-242	21-528	41-490	71-430	109-355	104-366	125-327	60-457
70-437	50-480	40-460	69-444	135-312	43-497	76-432	92-400	40-506
104-378	40-506	35-517	106-375	174-239	31-526	118-352	59-472	48-496
92-409	188-218	70-455	103-391	125-348	55-489	70-460	126-352	49-508
70-466	31-544	95-418	150-310	119-374	39-535	71-472	84-446	82-452
87-445	32-556	32-557	81-459	71-482	84-456	93-438	125-375	195-235
20-587	60-507	40-550	70-490	60-511	103-425	105-421	63-508	79-476
20-595	32-571	79-478	30-577	40-557	71-495	55-530	52-537	95-451

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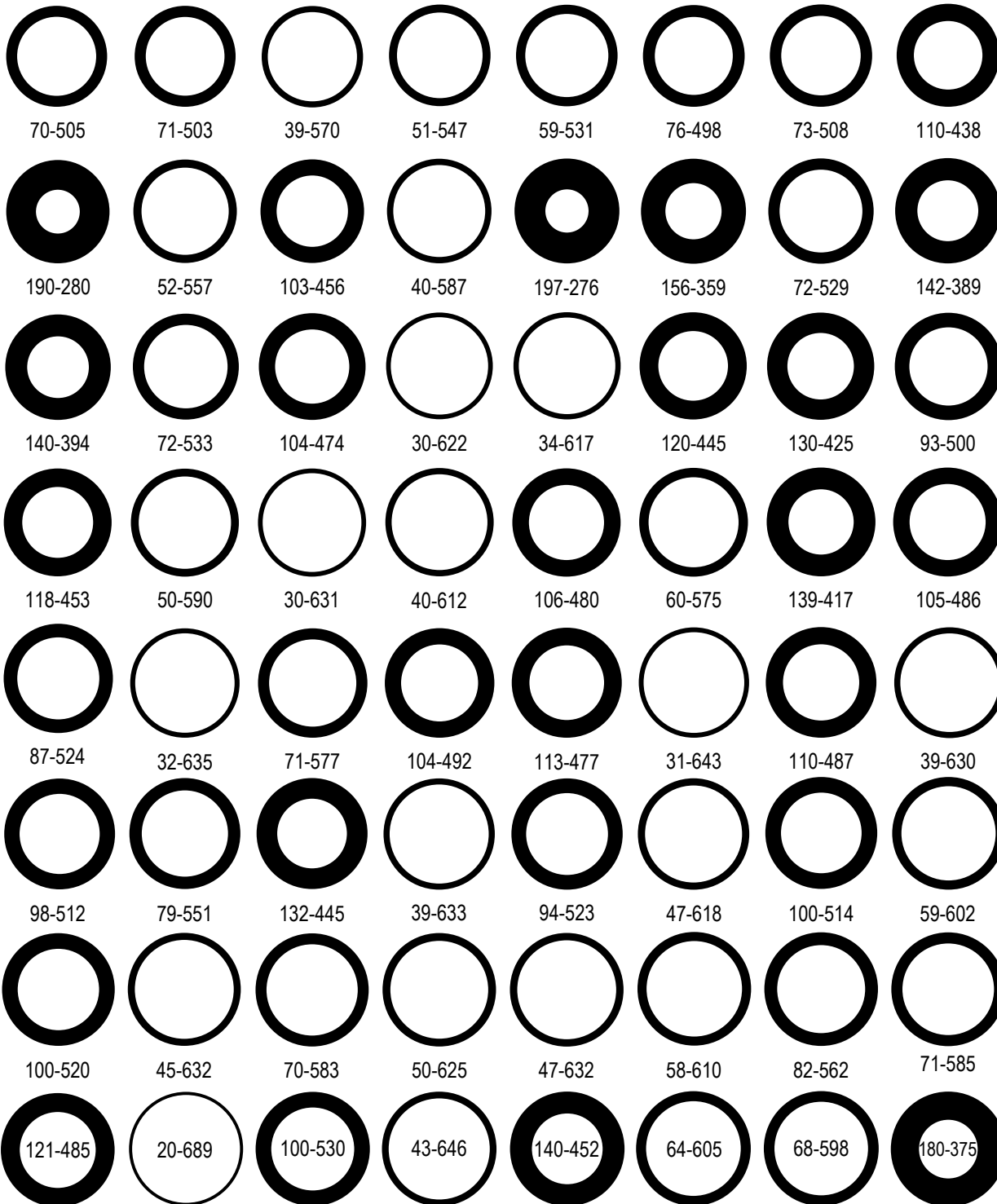
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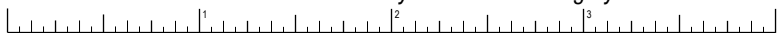
Special Size O-Rings



.645" — .735" O.D.



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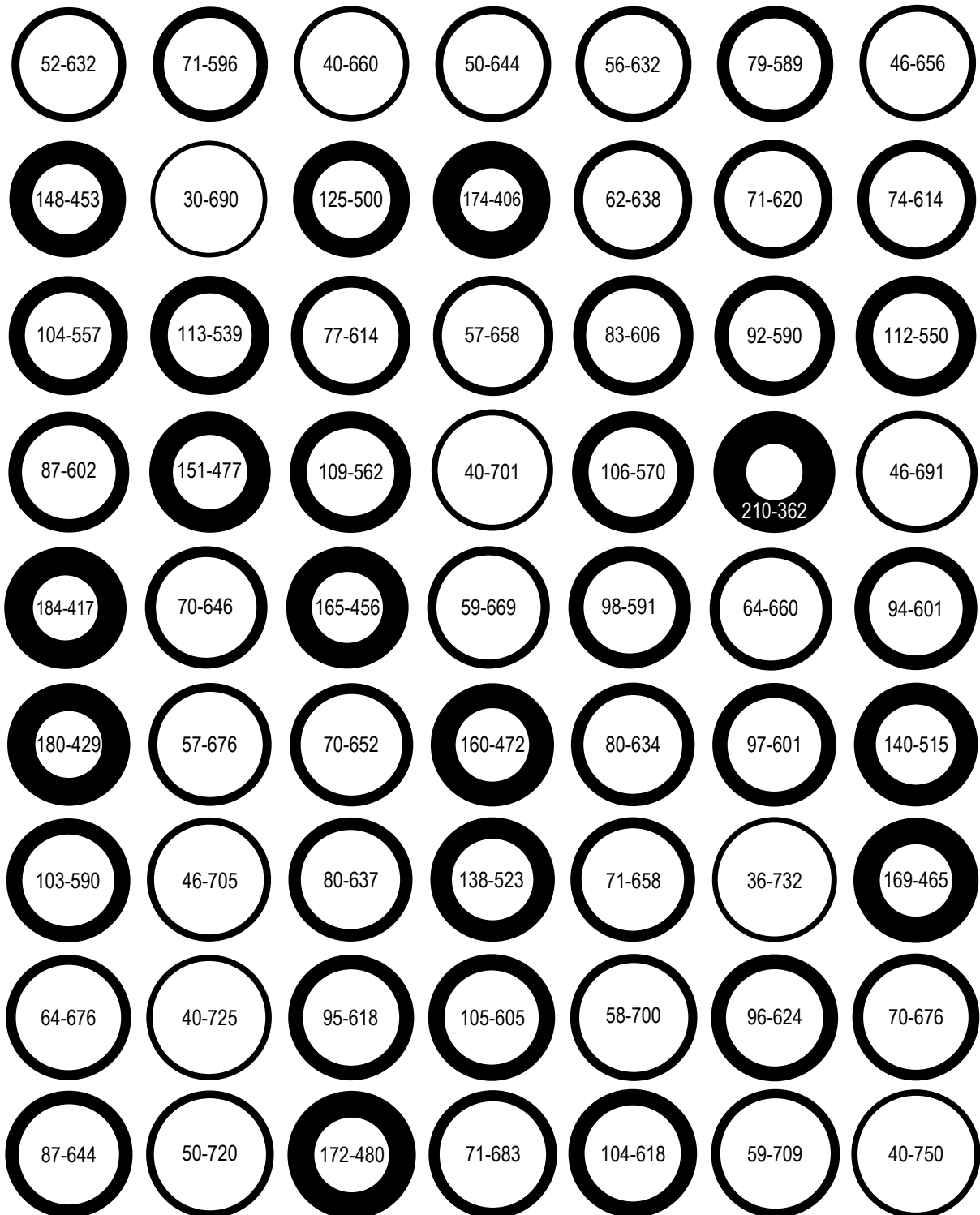
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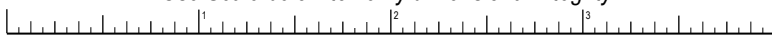
Special Size O-Rings



.736" — .830" O.D.



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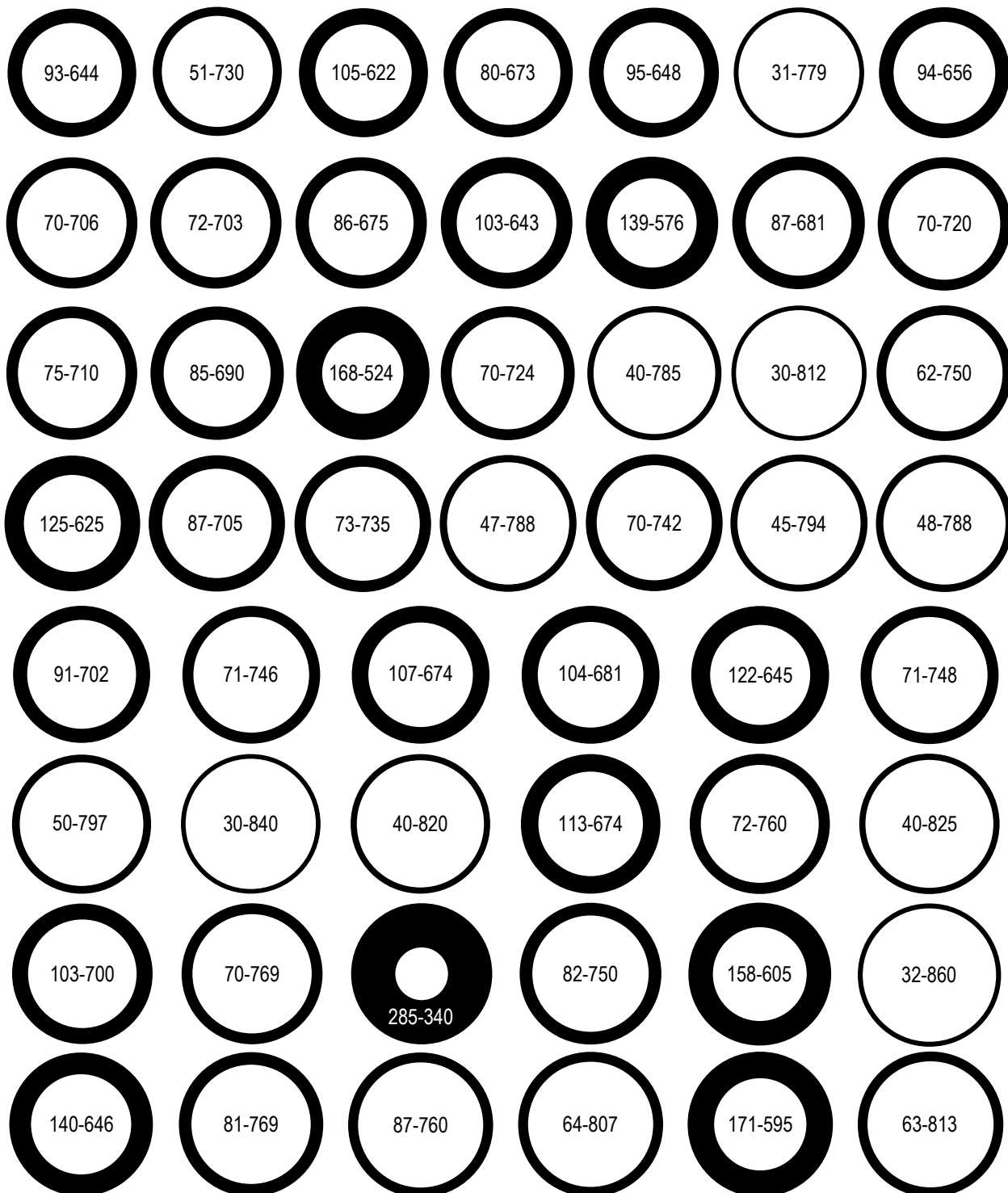
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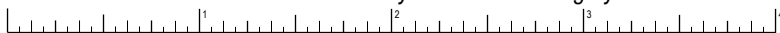
Special Size O-Rings



.830" — .939" O.D.



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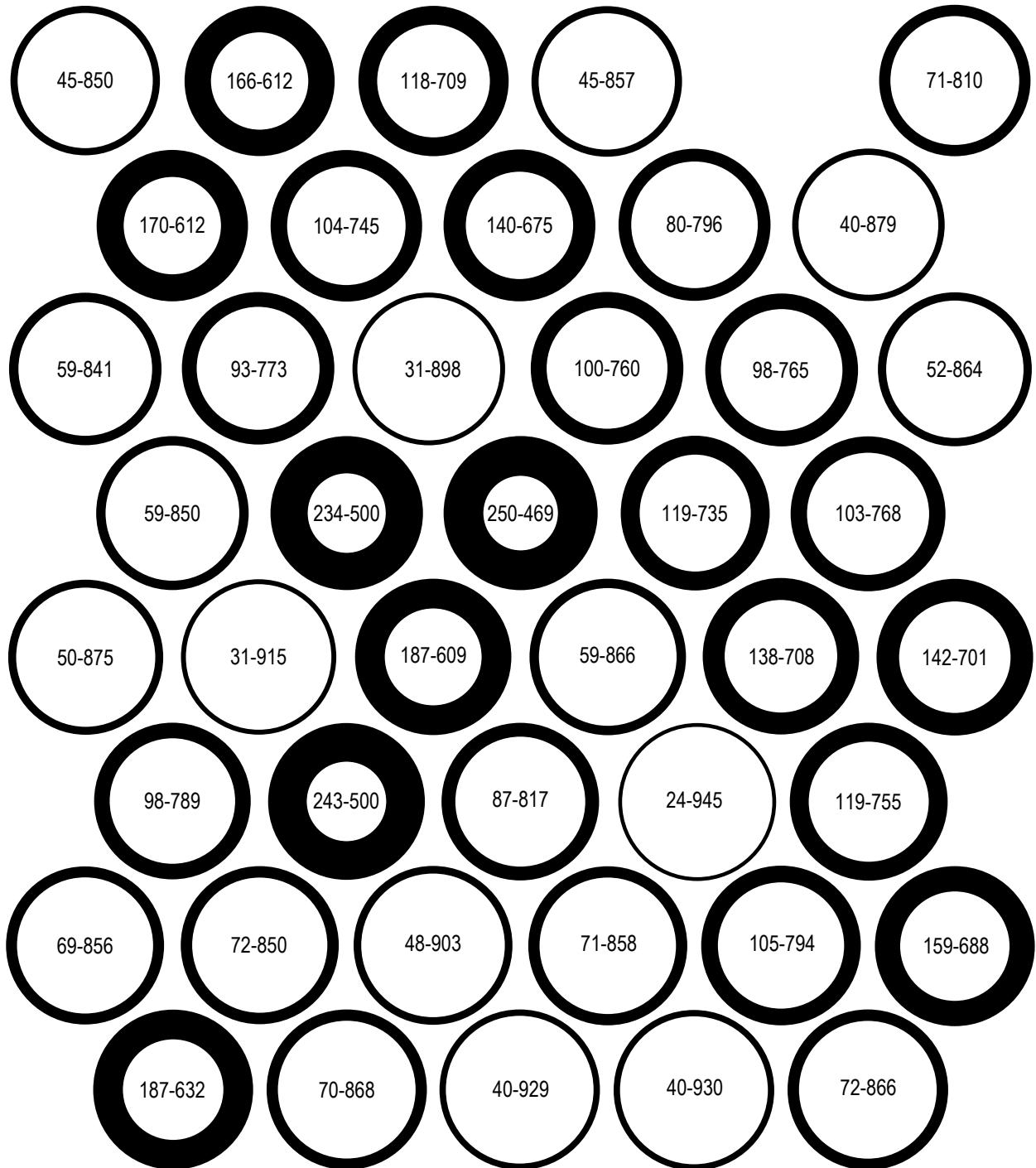
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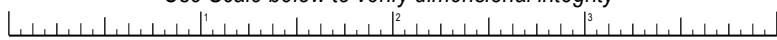
Special Size O-Rings



.940" — 1.010." O.D.



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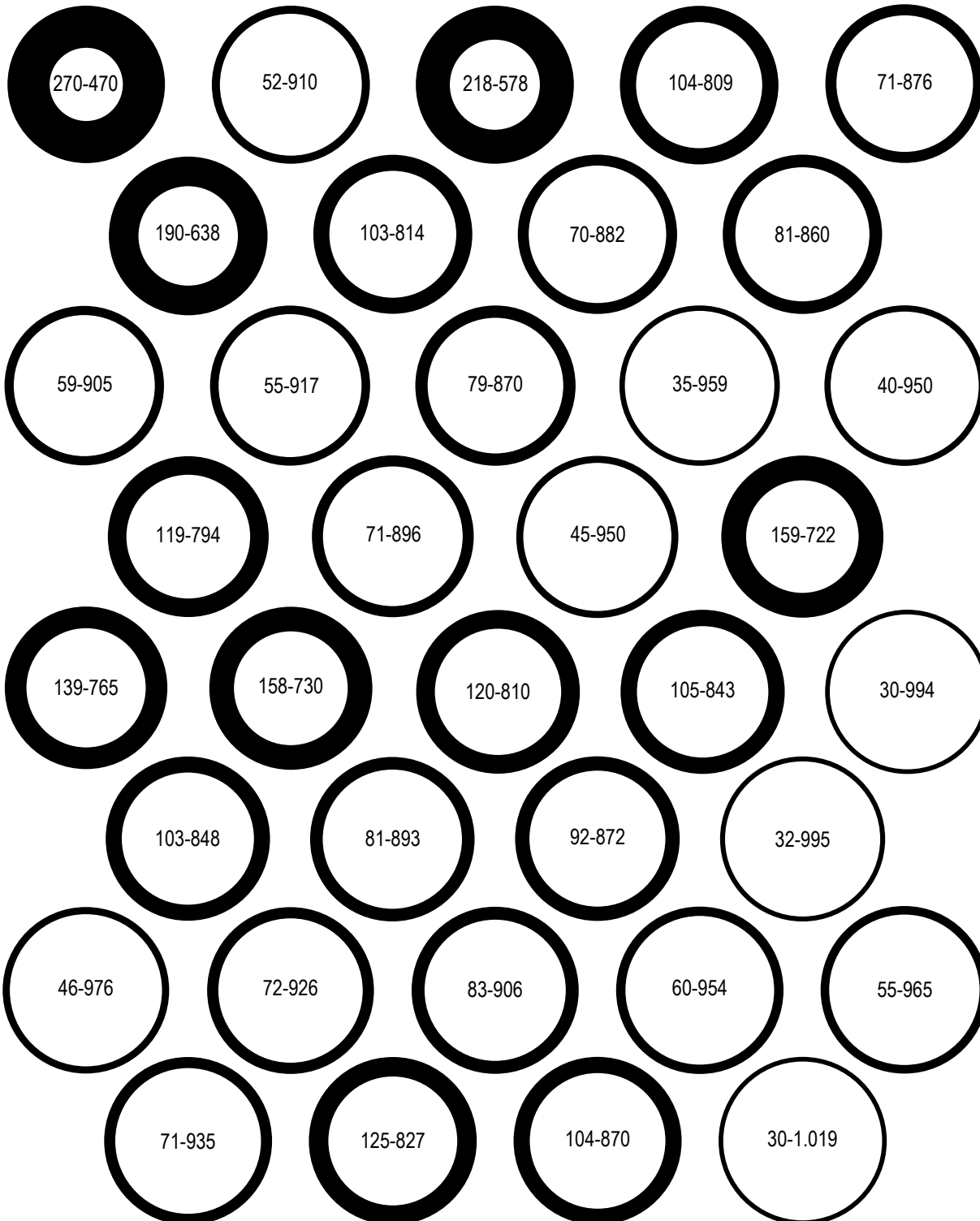
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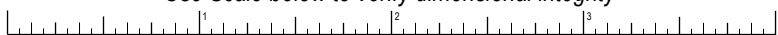
Special Size O-Rings



1.010" — 1.079" O.D.



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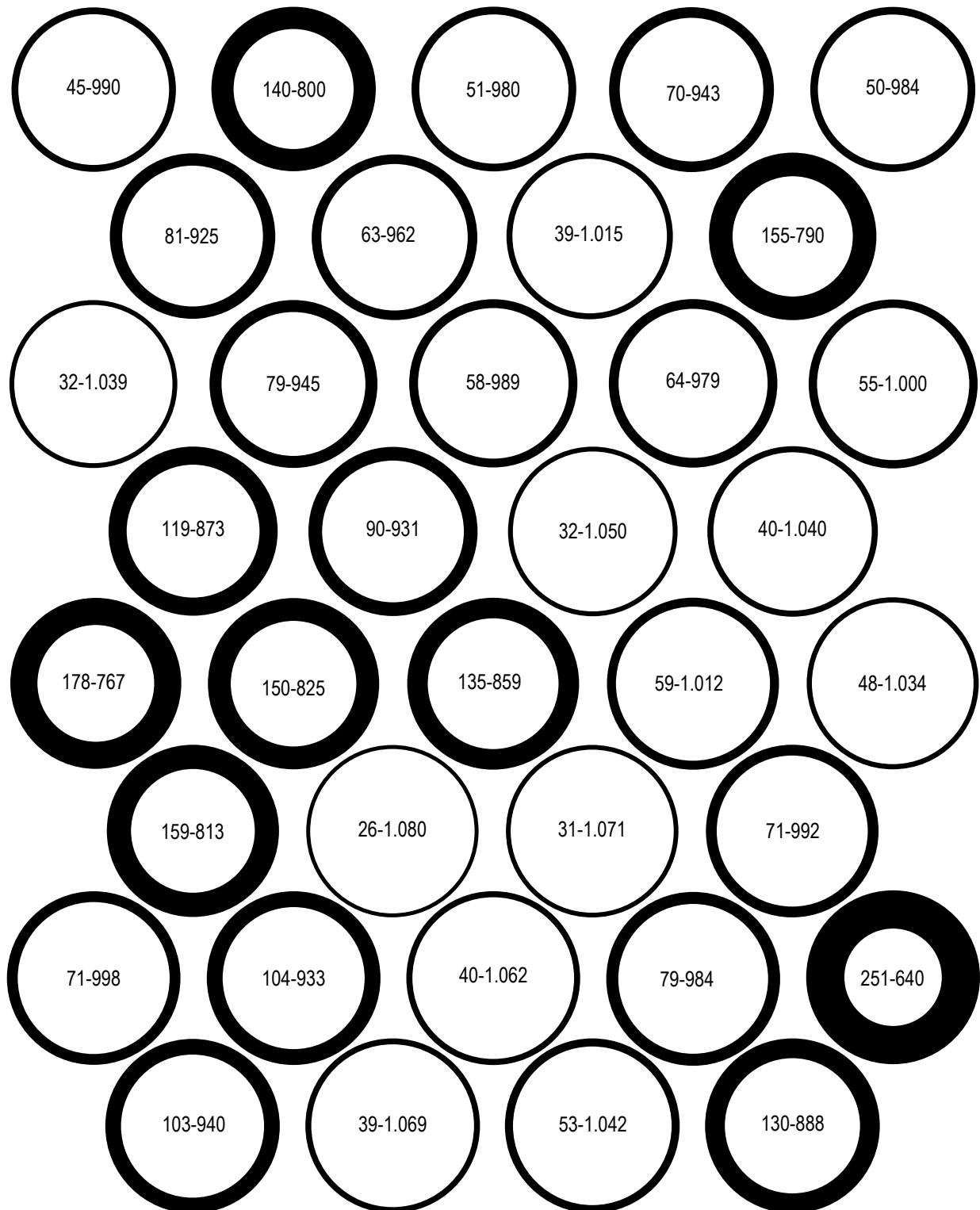
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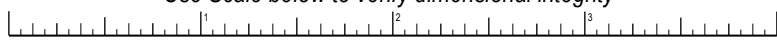
Special Size O-Rings



1.080" — 1.148" O.D.



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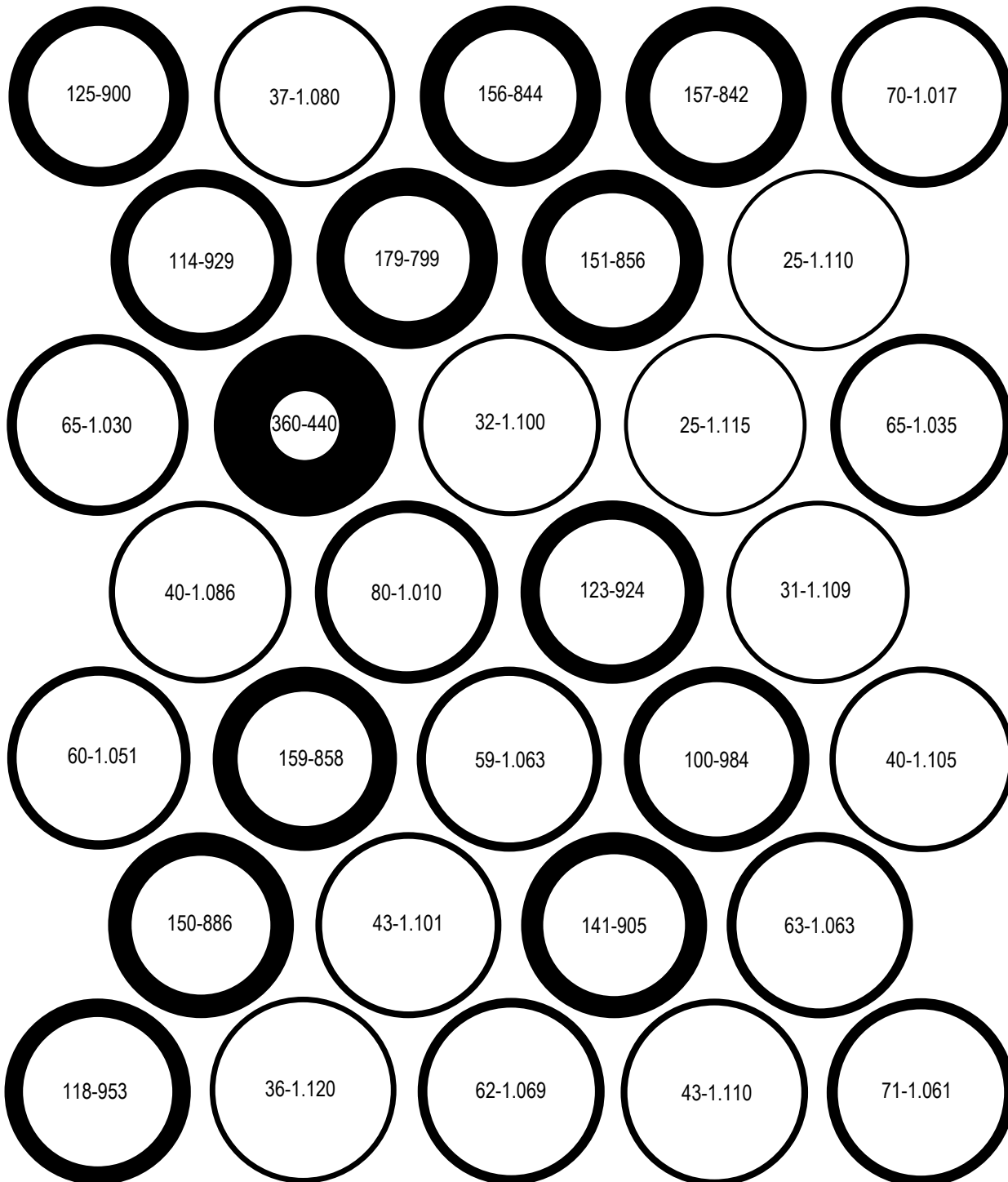
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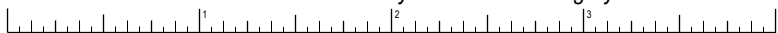
Special Size O-Rings



1.151" — 1.203" O.D.



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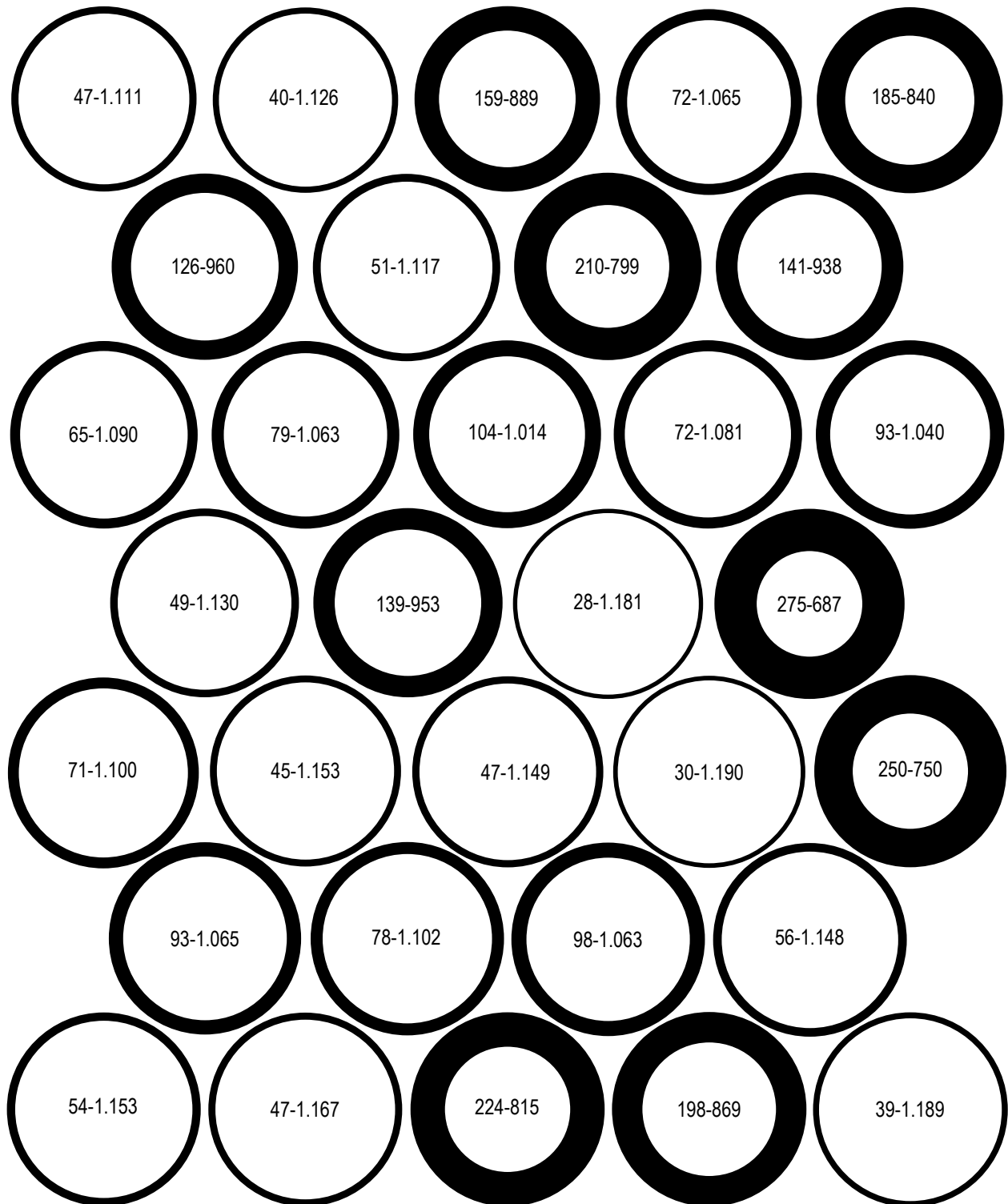
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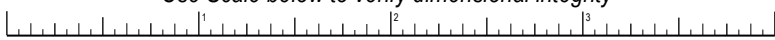
Special Size O-Rings



1.205" — 1.267" O.D.



Use Scale below to verify dimensional integrity



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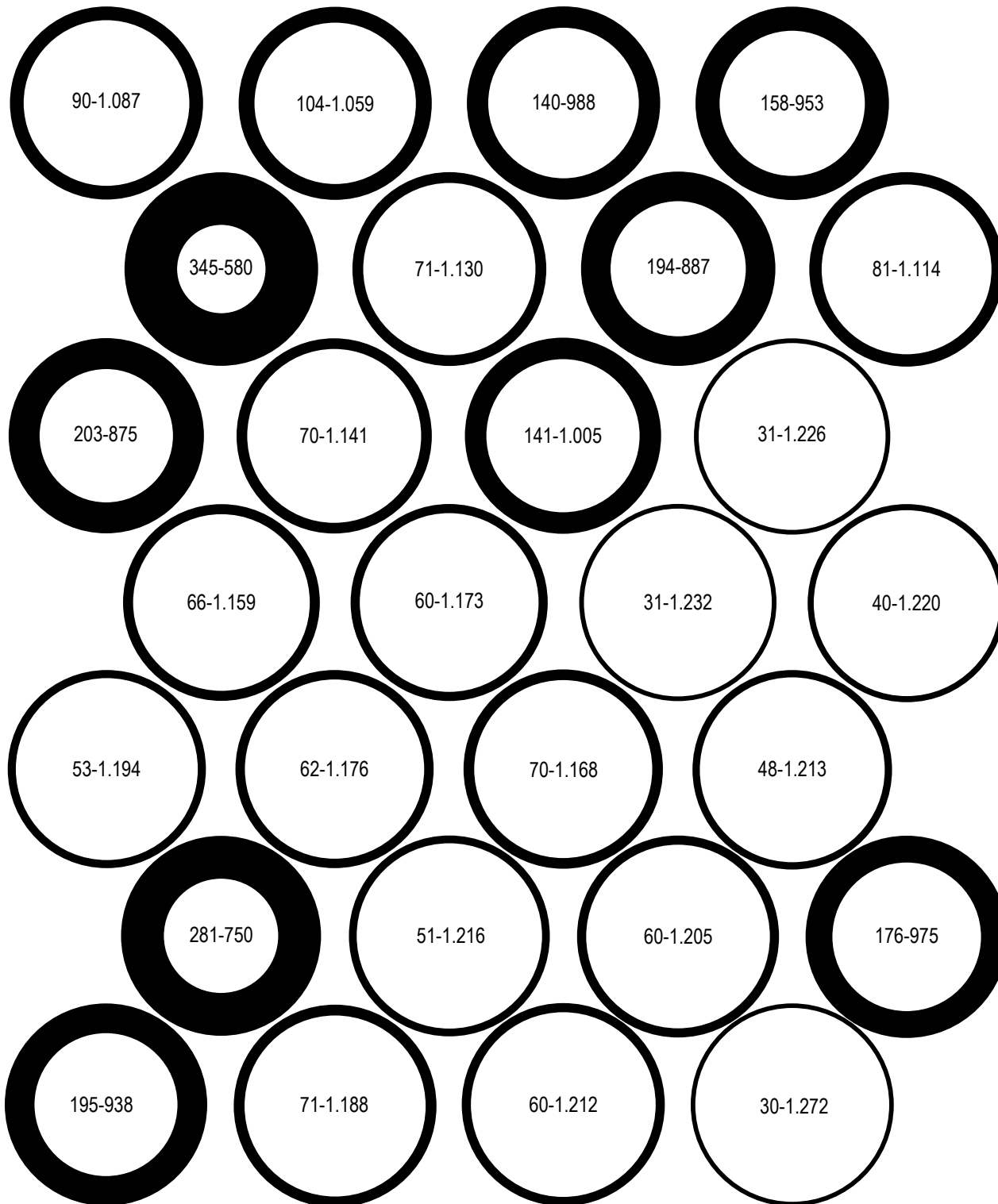
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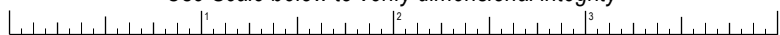
Special Size O-Rings



1.267" — 1.332" O.D.



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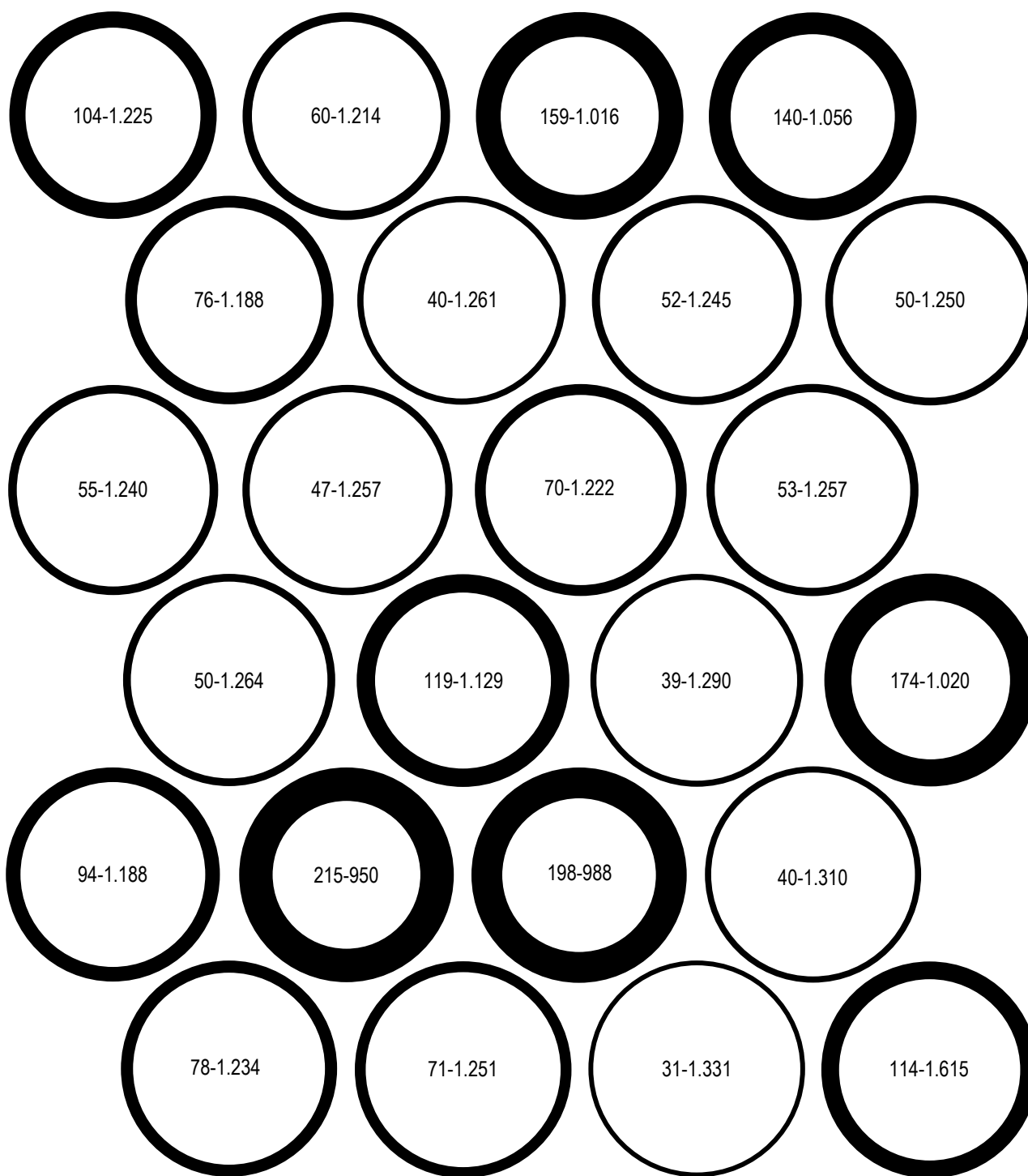
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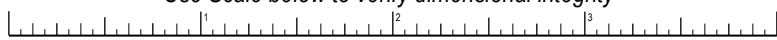
Special Size O-Rings



1.333" — 1.393" O.D.



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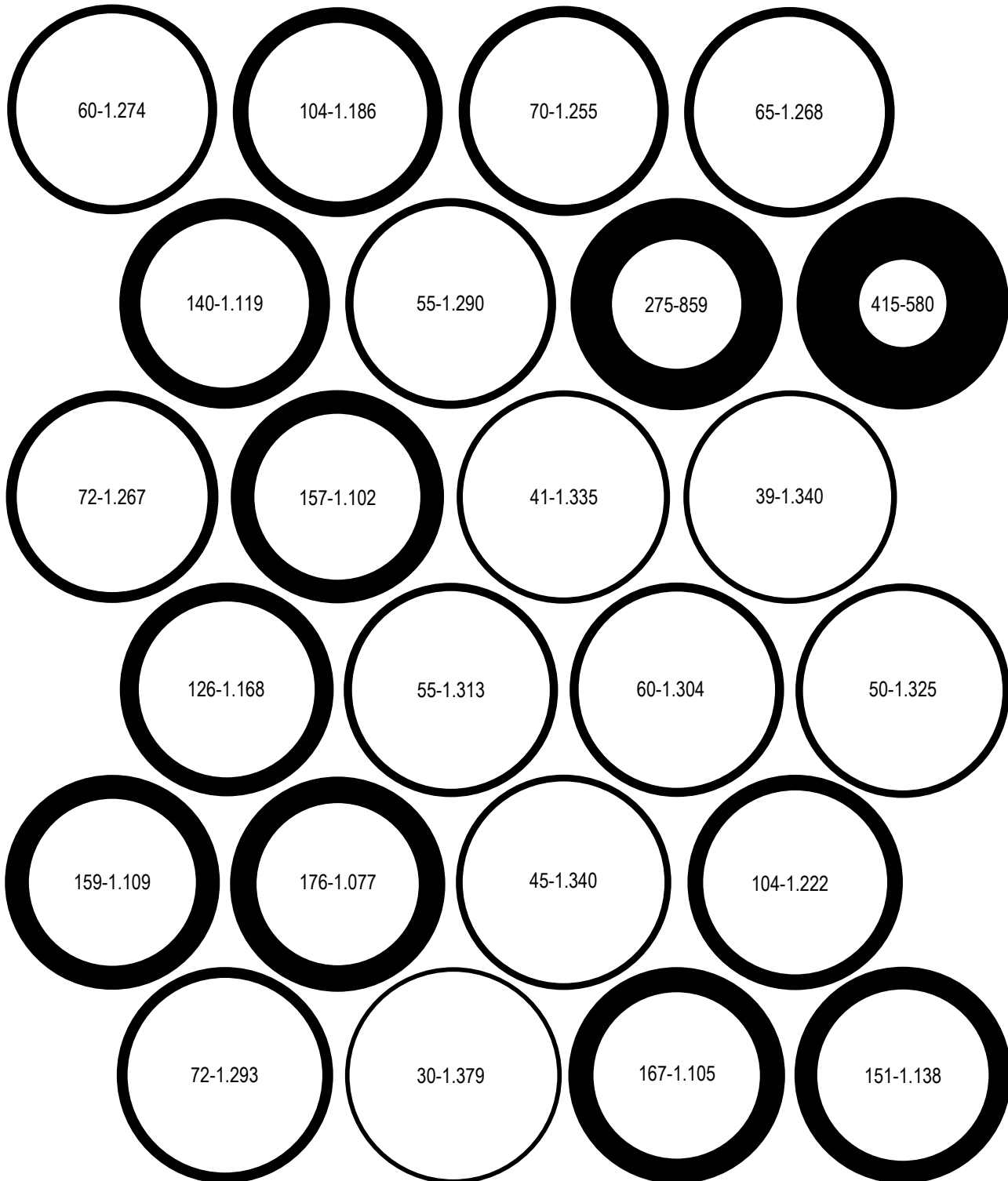




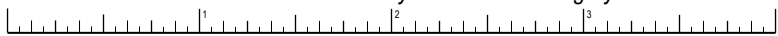
Special Size O-Rings



1.394" — 1.440" O.D.



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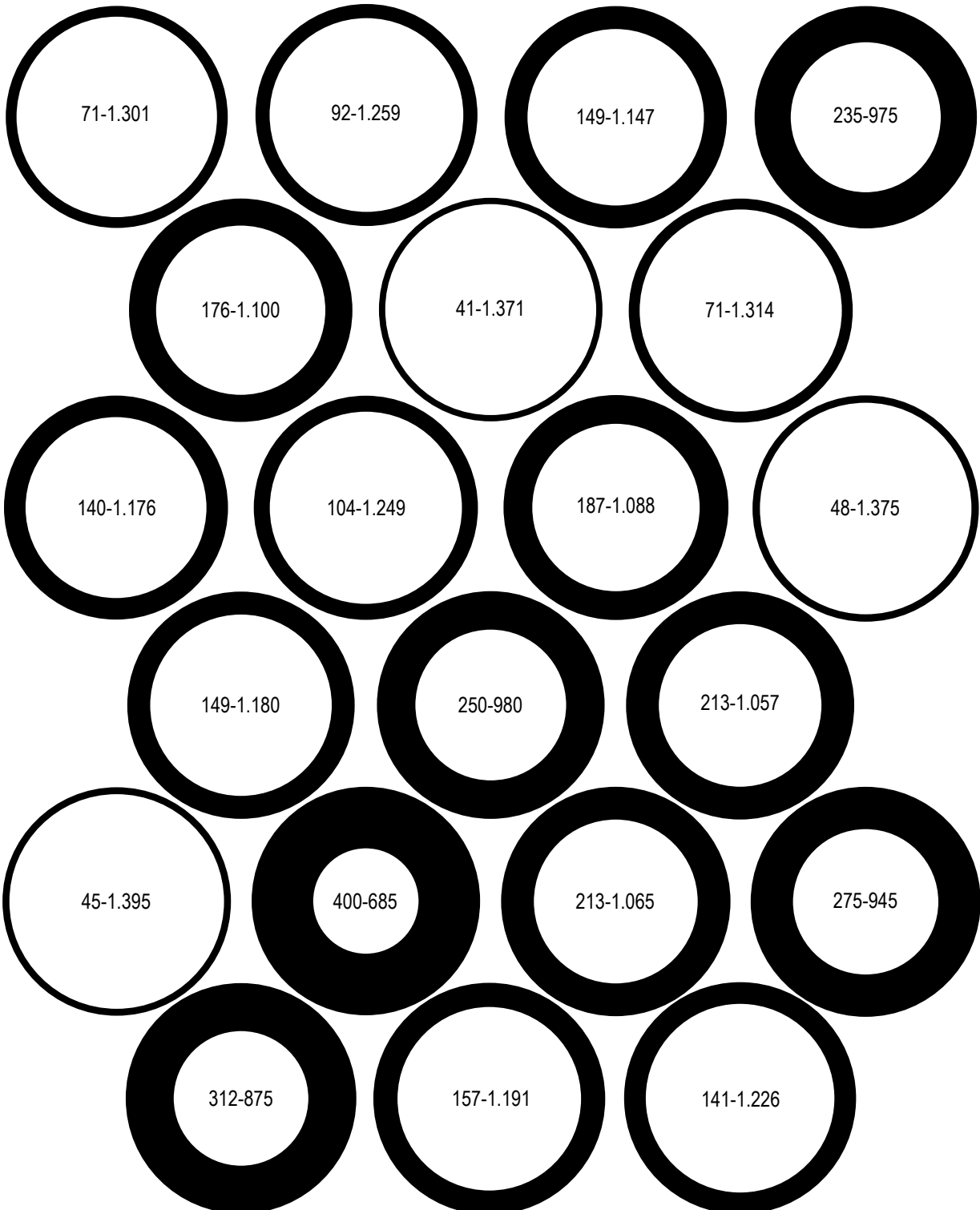
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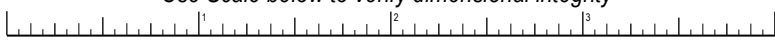
Special Size O-Rings



1.443" — 1.508" O.D.



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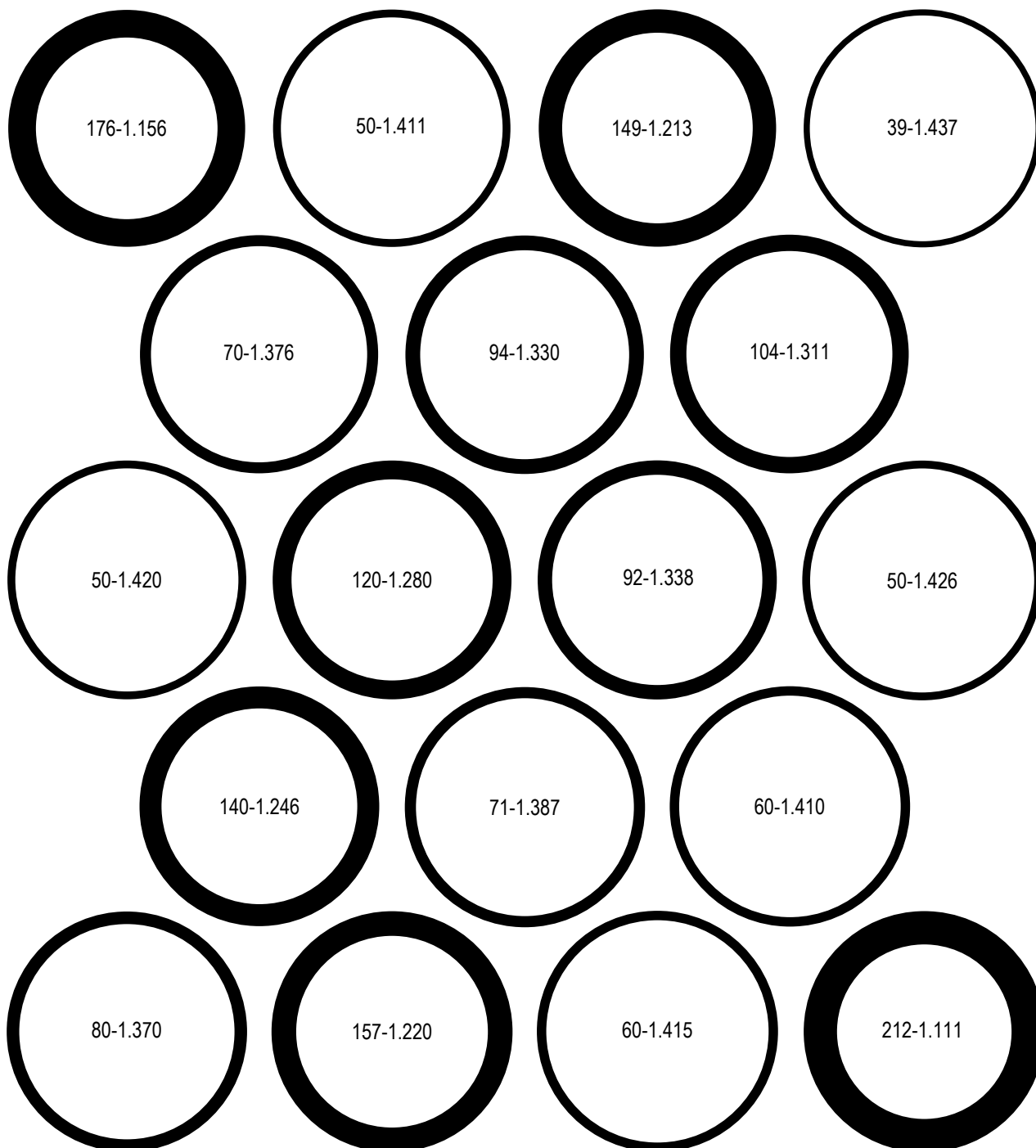
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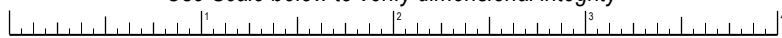
Special Size O-Rings



1.508" — 1.535" O.D.



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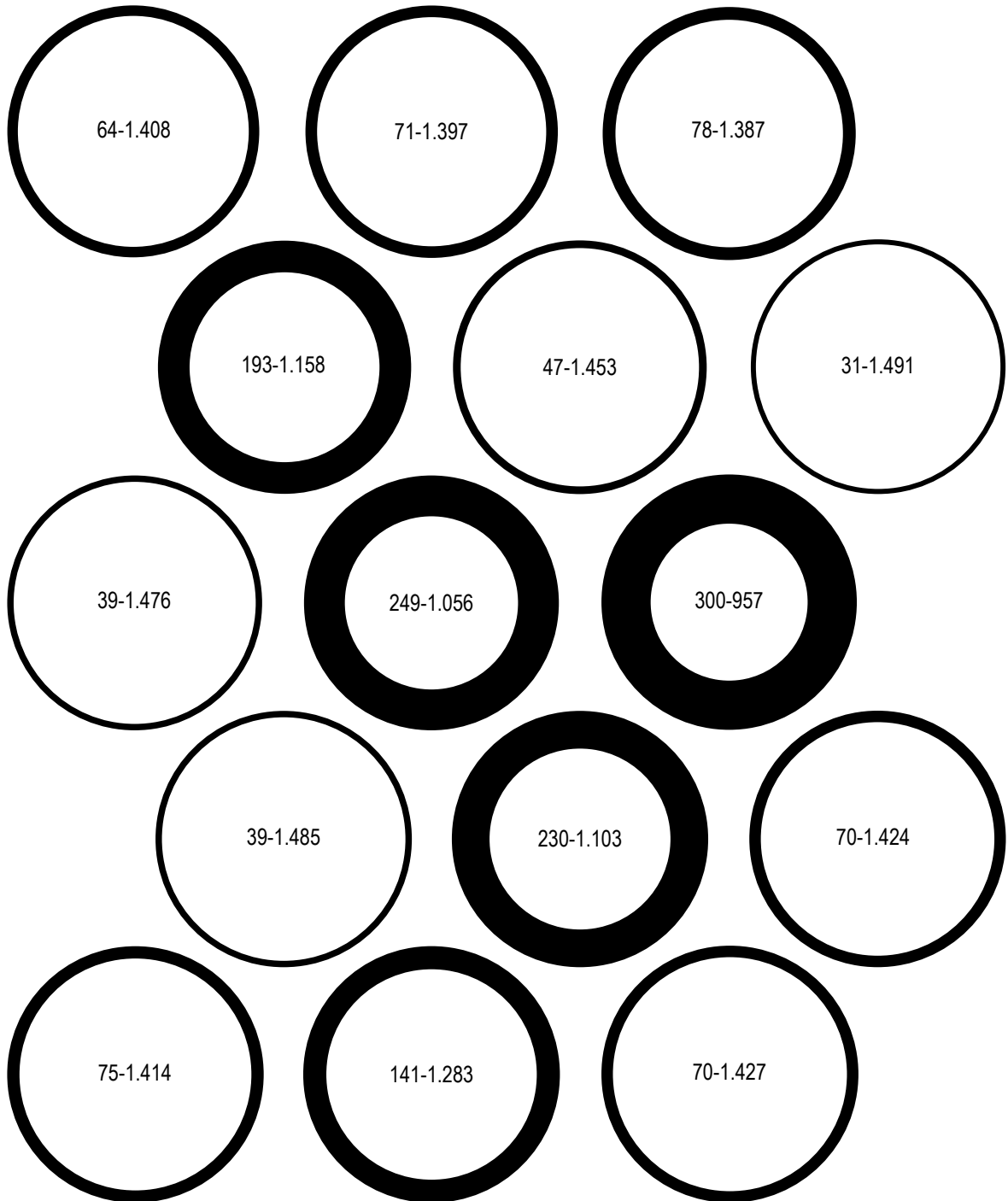
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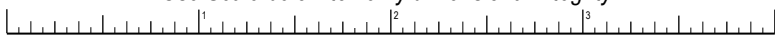
Special Size O-Rings



1.536" — 1.567" O.D.



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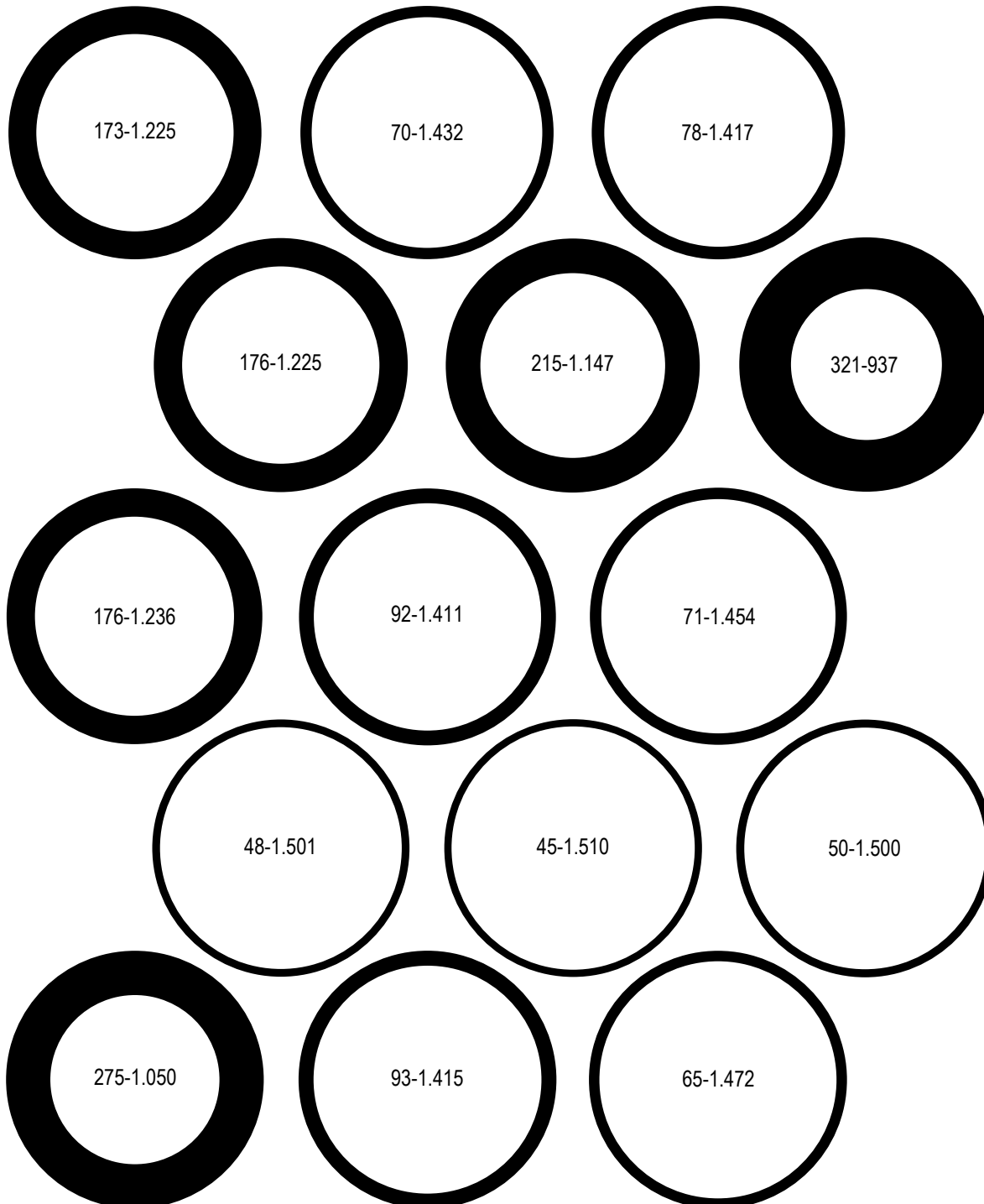




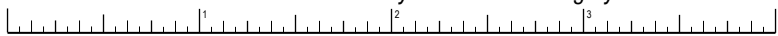
Special Size O-Rings



1.571" — 1.602" O.D.



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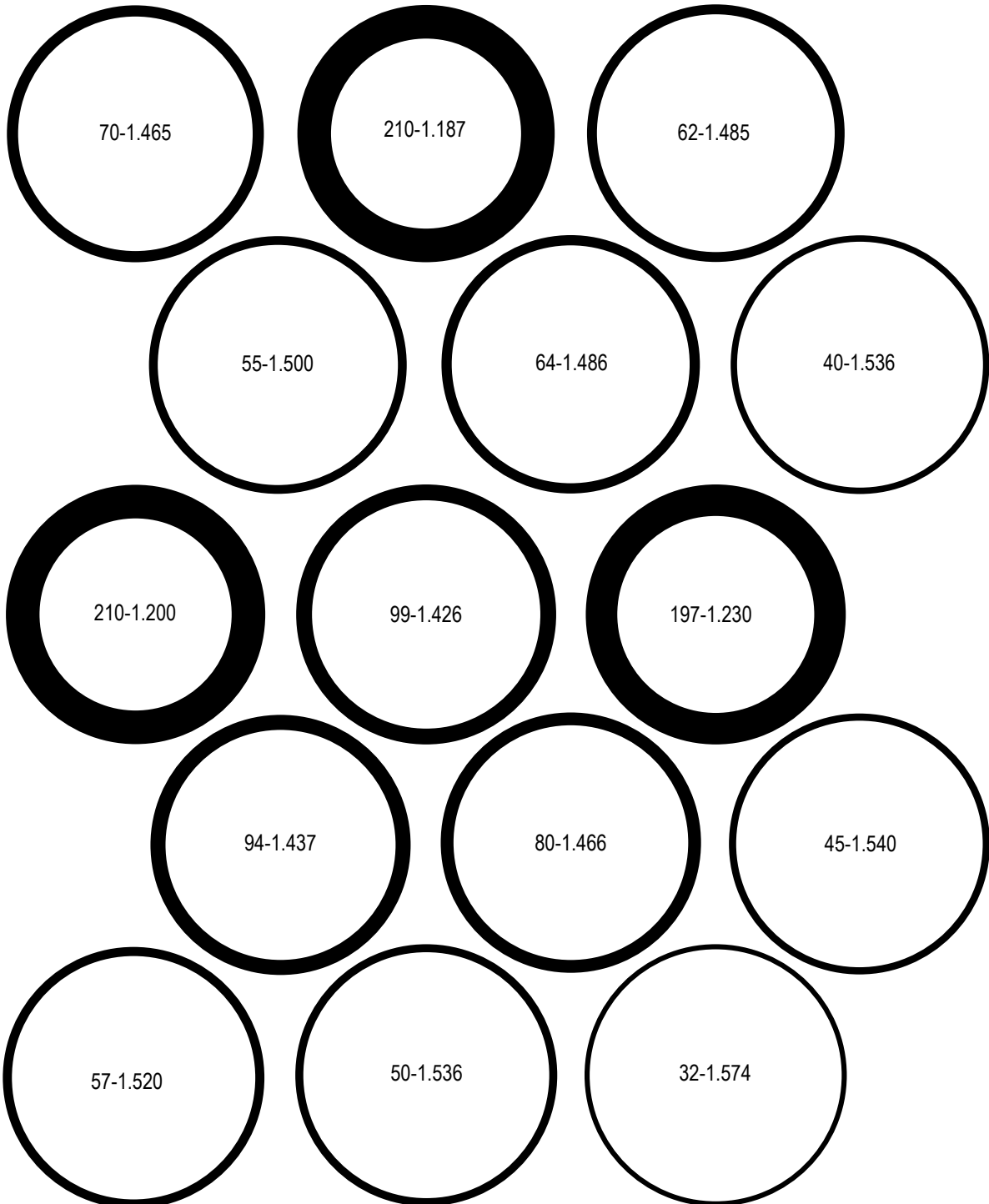
www.PrecisionAssoc.com



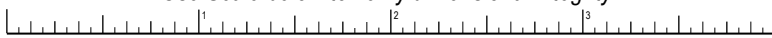
Special Size O-Rings



1.605" — 1.638 " O.D.



Use Scale below to verify dimensional integrity



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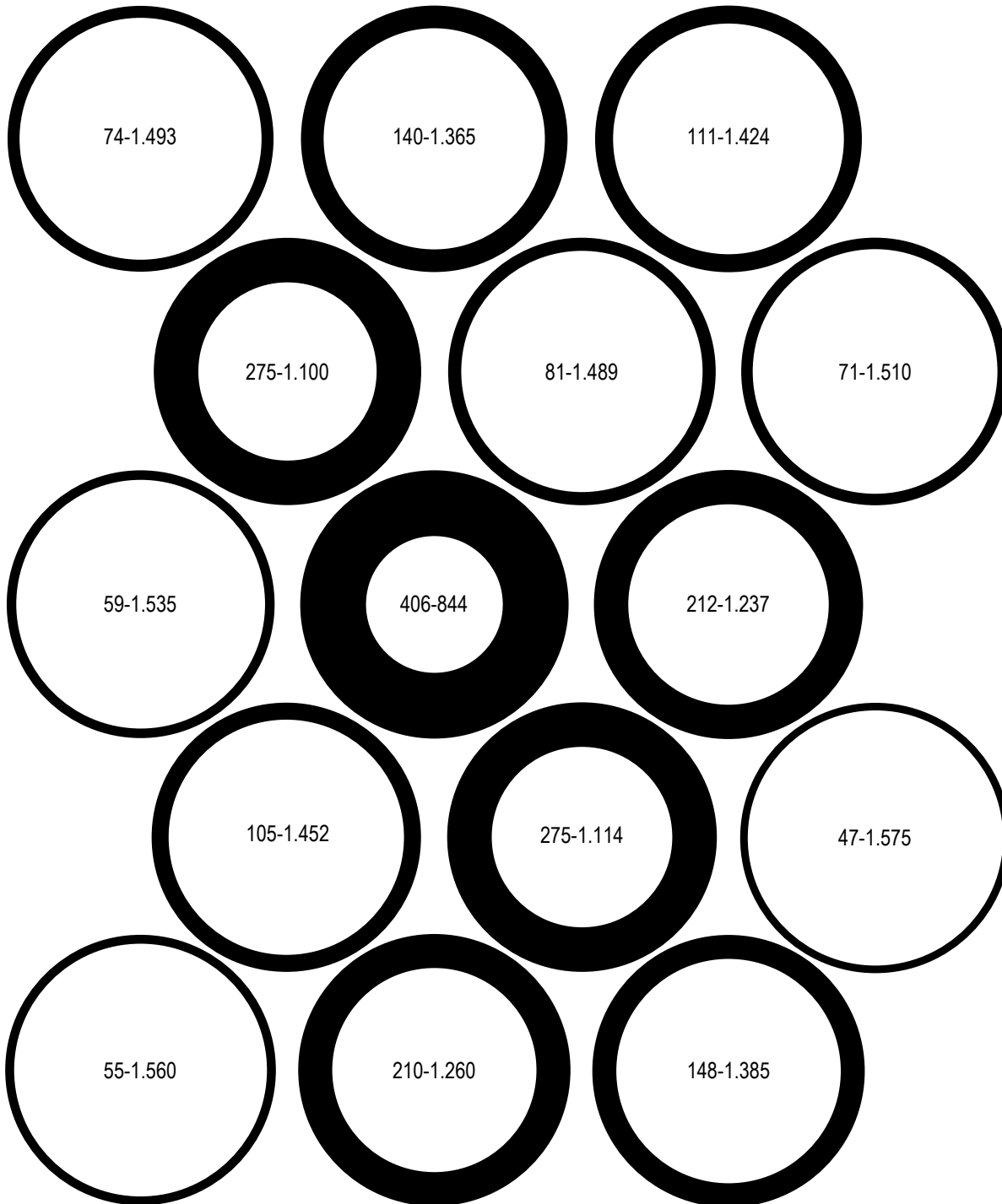




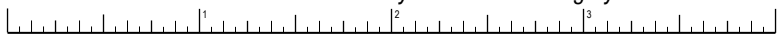
Special Size O-Rings



1.641" — 1.681" O.D.



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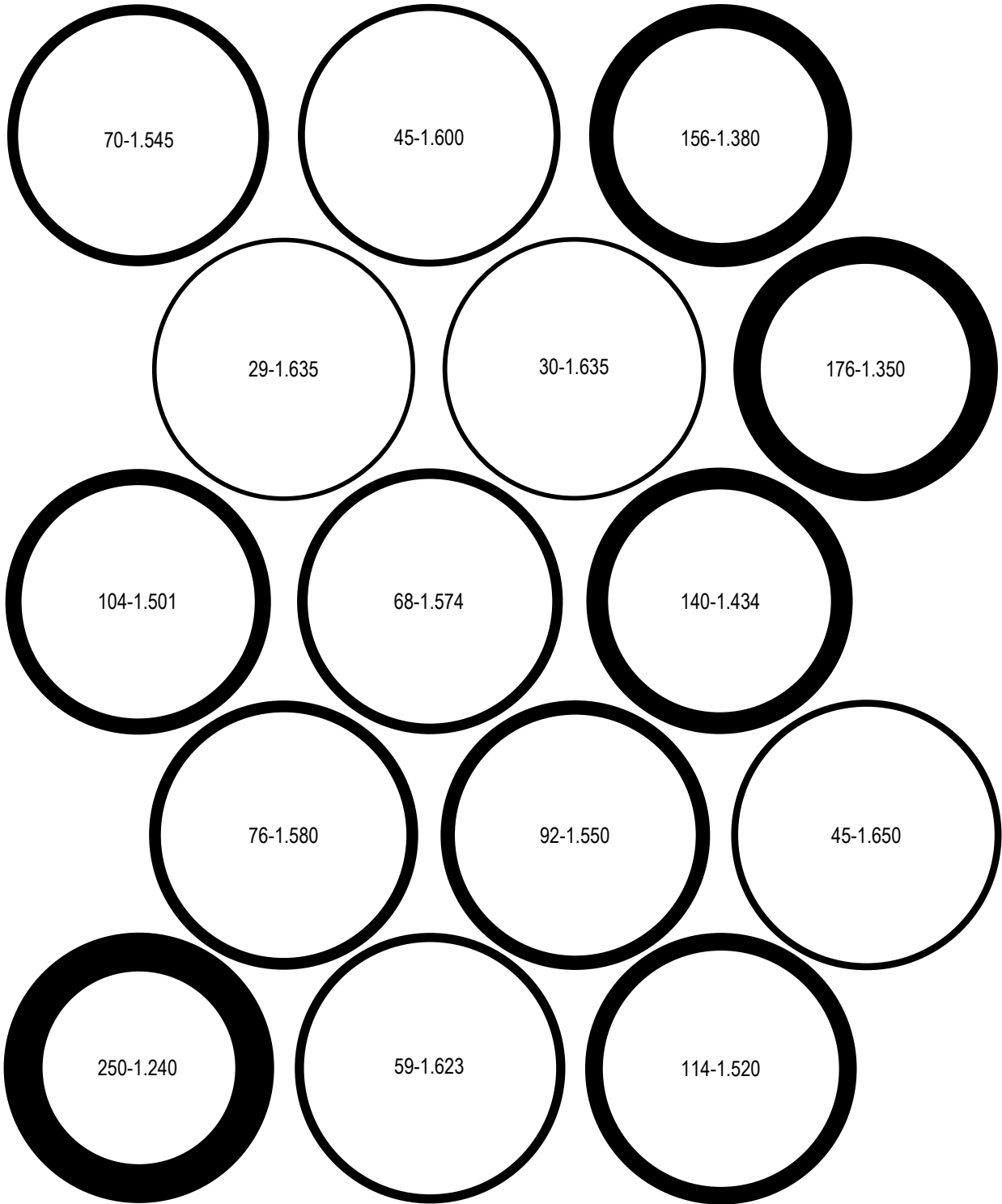
www.PrecisionAssoc.com



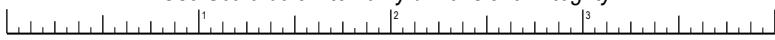
Special Size O-Rings



1.685" — 1.748" O.D.



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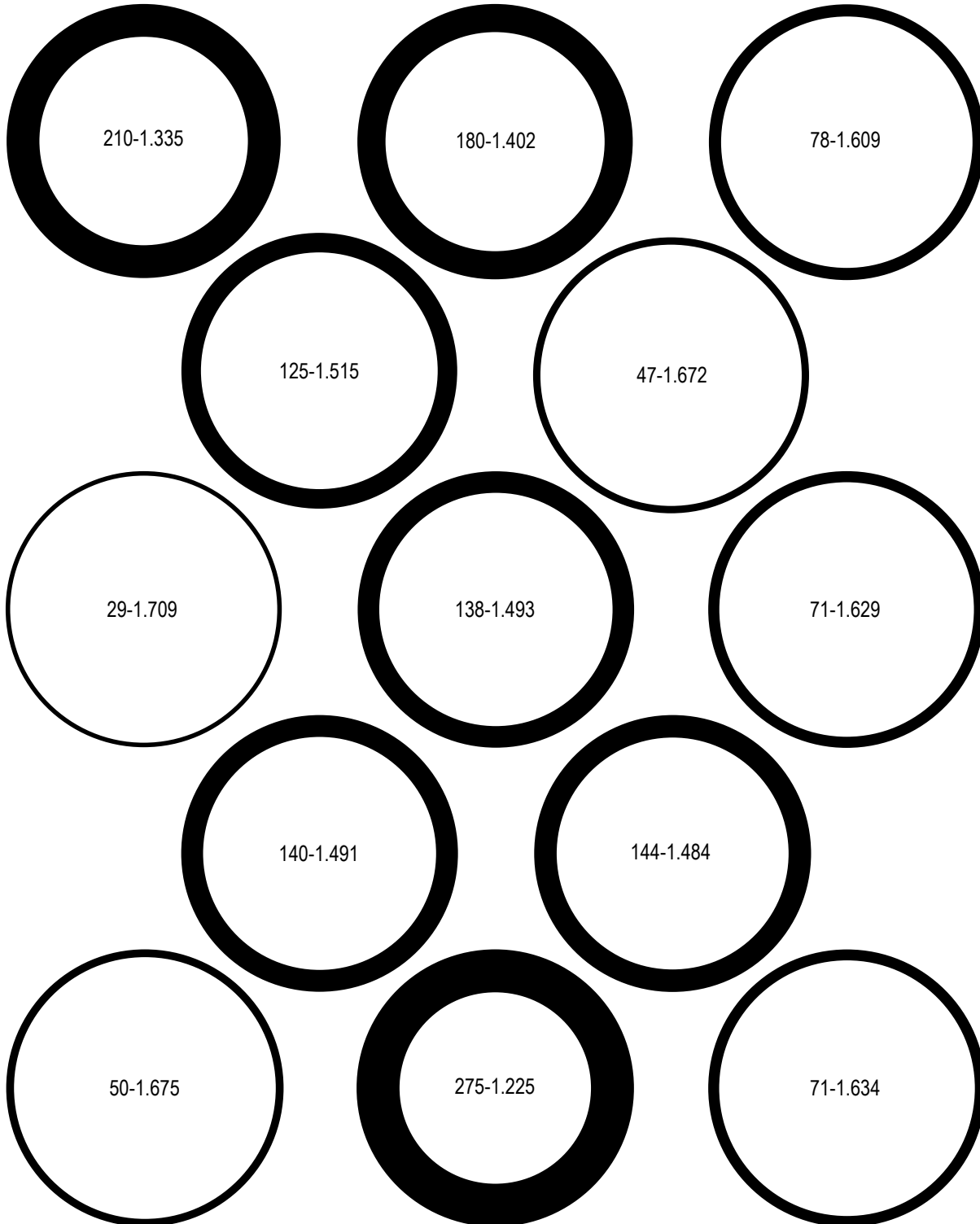
www.PrecisionAssoc.com



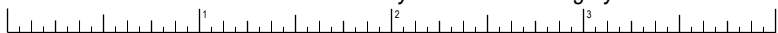
Special Size O-Rings



1.754" — 1.776" O.D.



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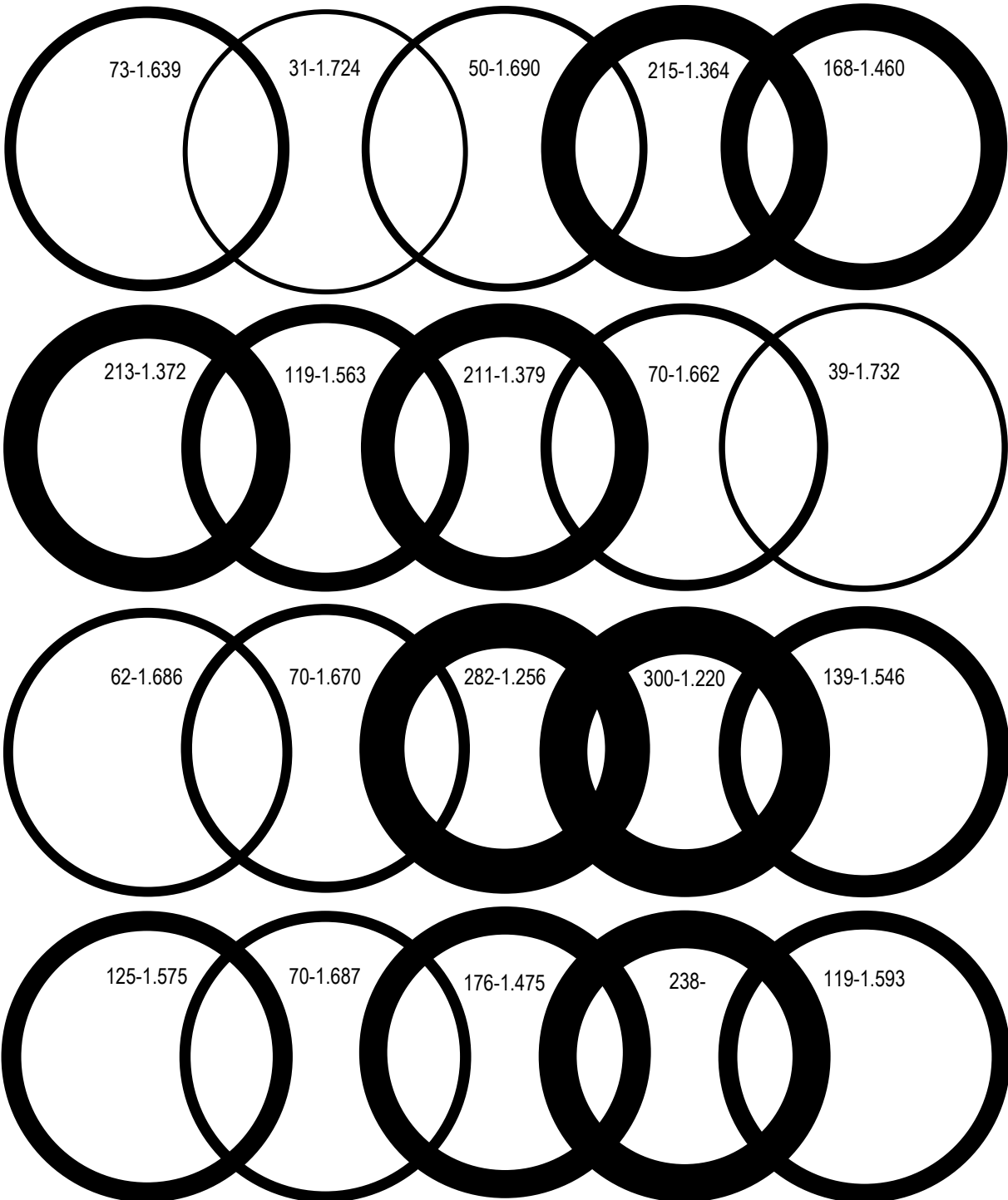
www.PrecisionAssoc.com



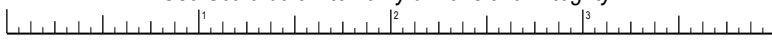
Special Size O-Rings



1.785" — 1.831" O.D.



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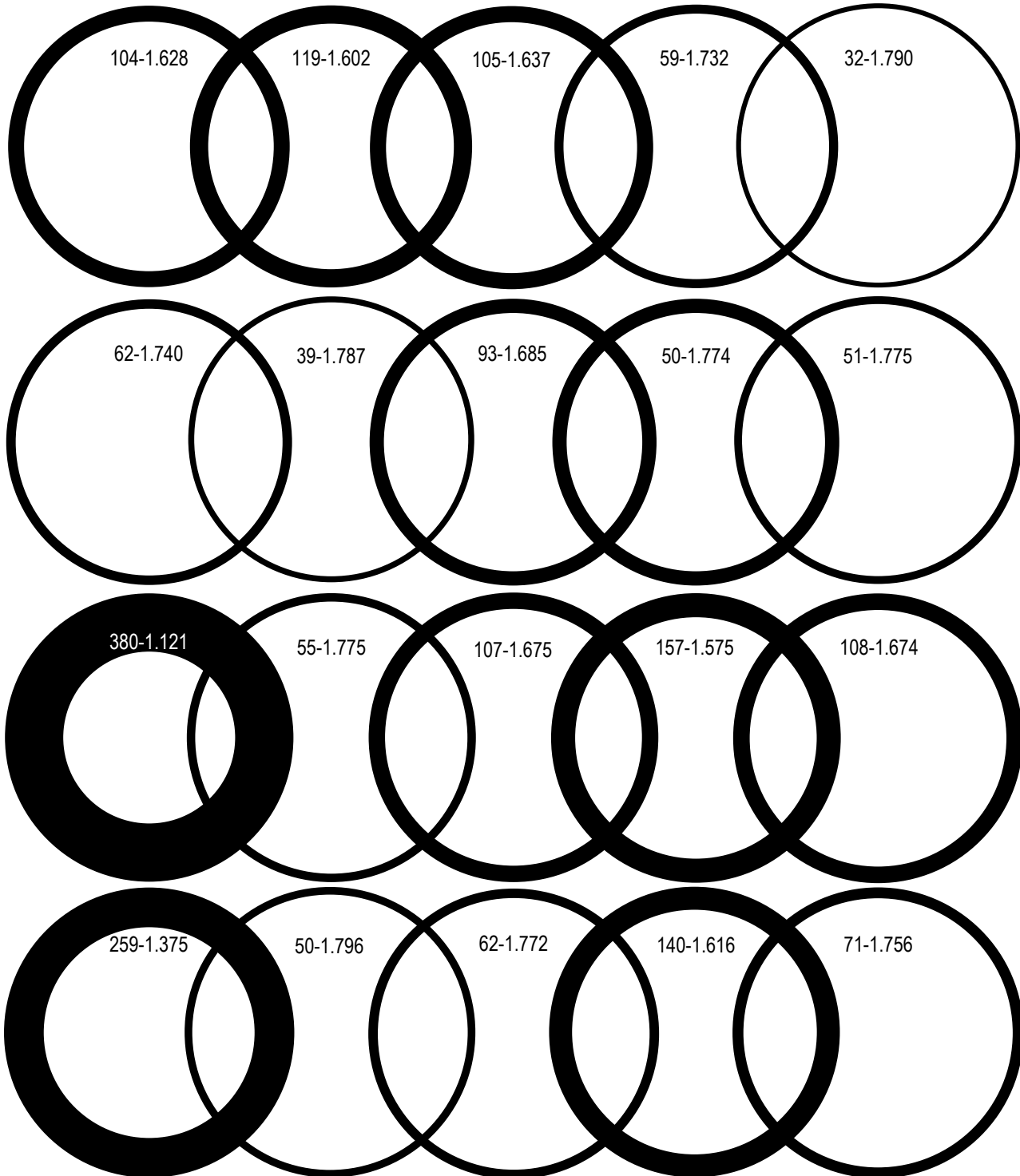




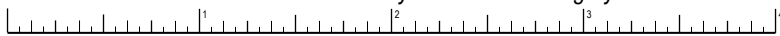
Special Size O-Rings



1.836" — 1.898" O.D.



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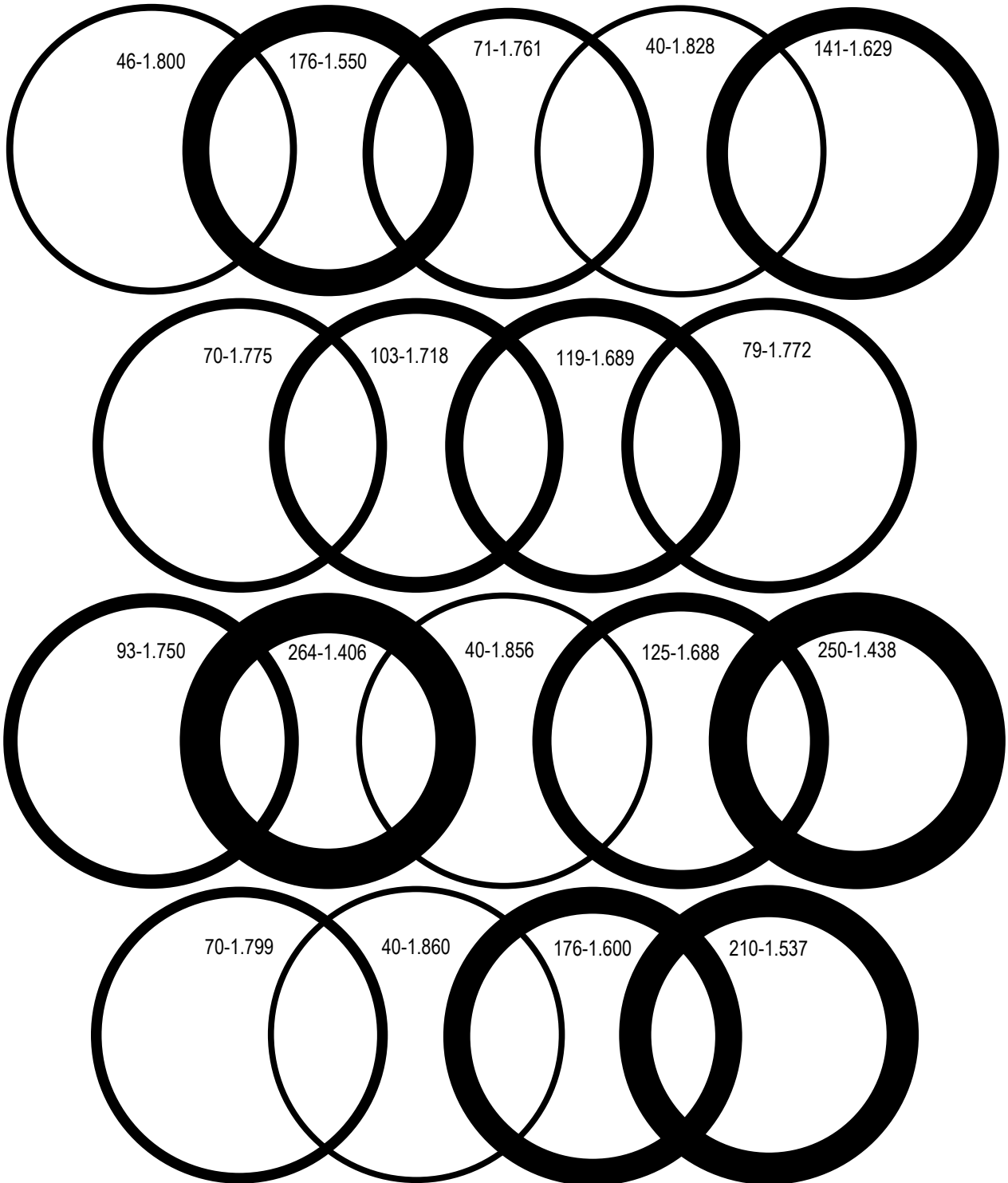
www.PrecisionAssoc.com



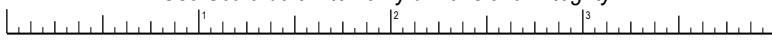
Special Size O-Rings



1.899" — 1.957" O.D.



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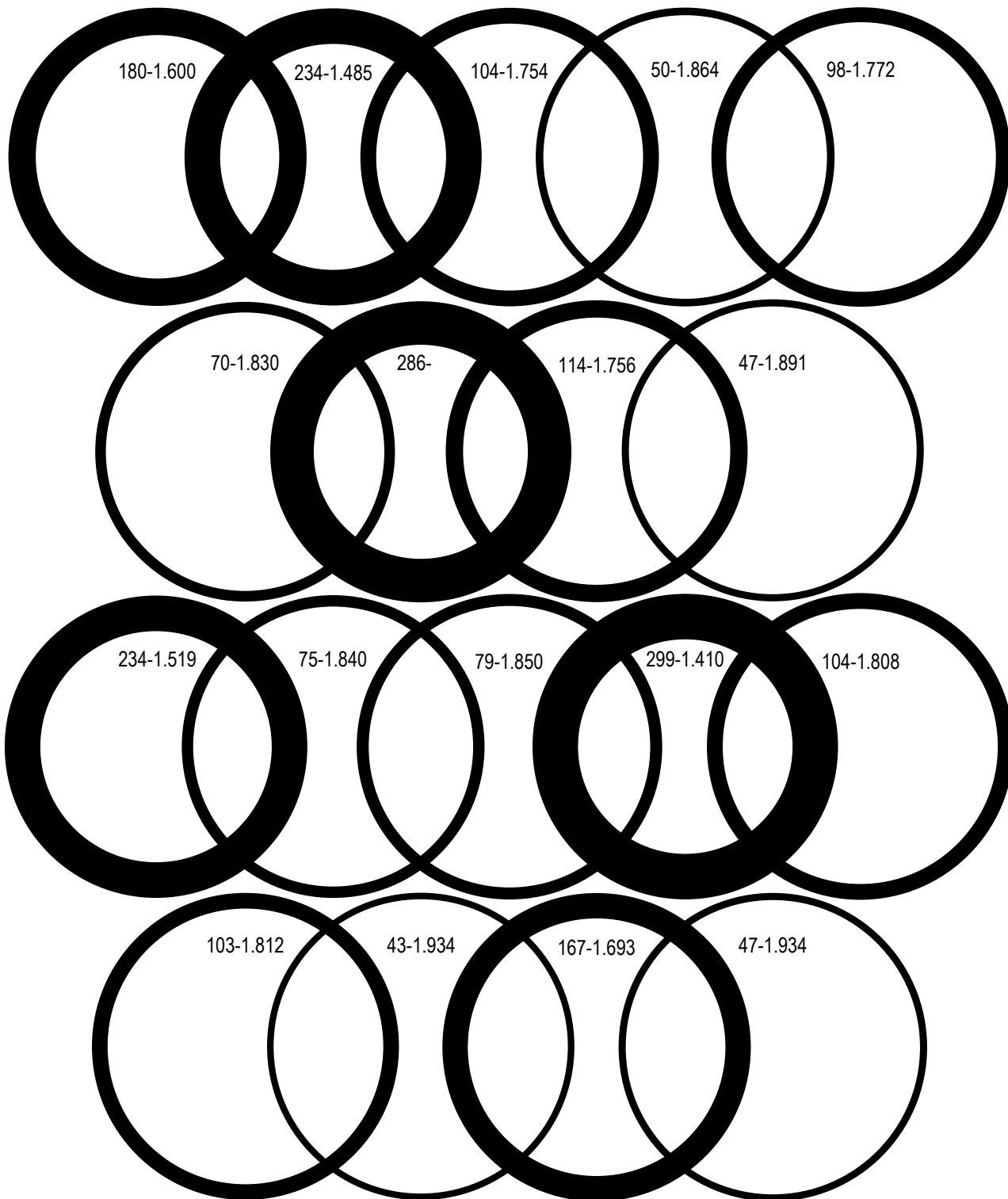
www.PrecisionAssoc.com



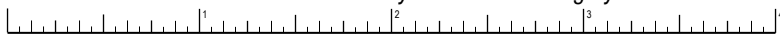
Special Size O-Rings



1.960" — 2.028" O.D.



Use Scale below to verify dimensional integrity



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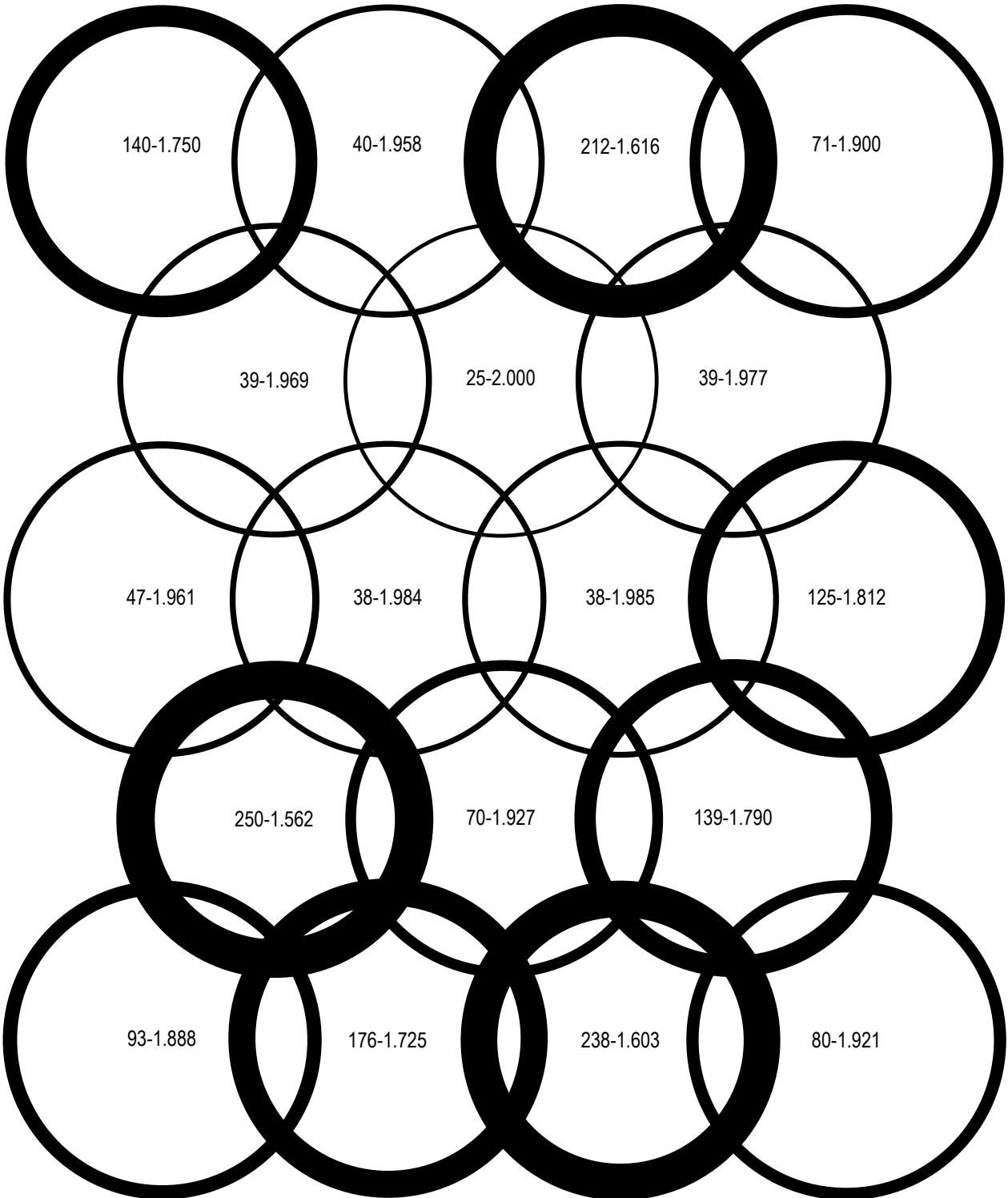
www.PrecisionAssoc.com



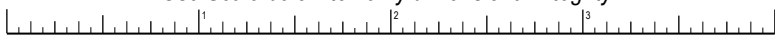
Special Size O-Rings



2.030" — 2.081" O.D.



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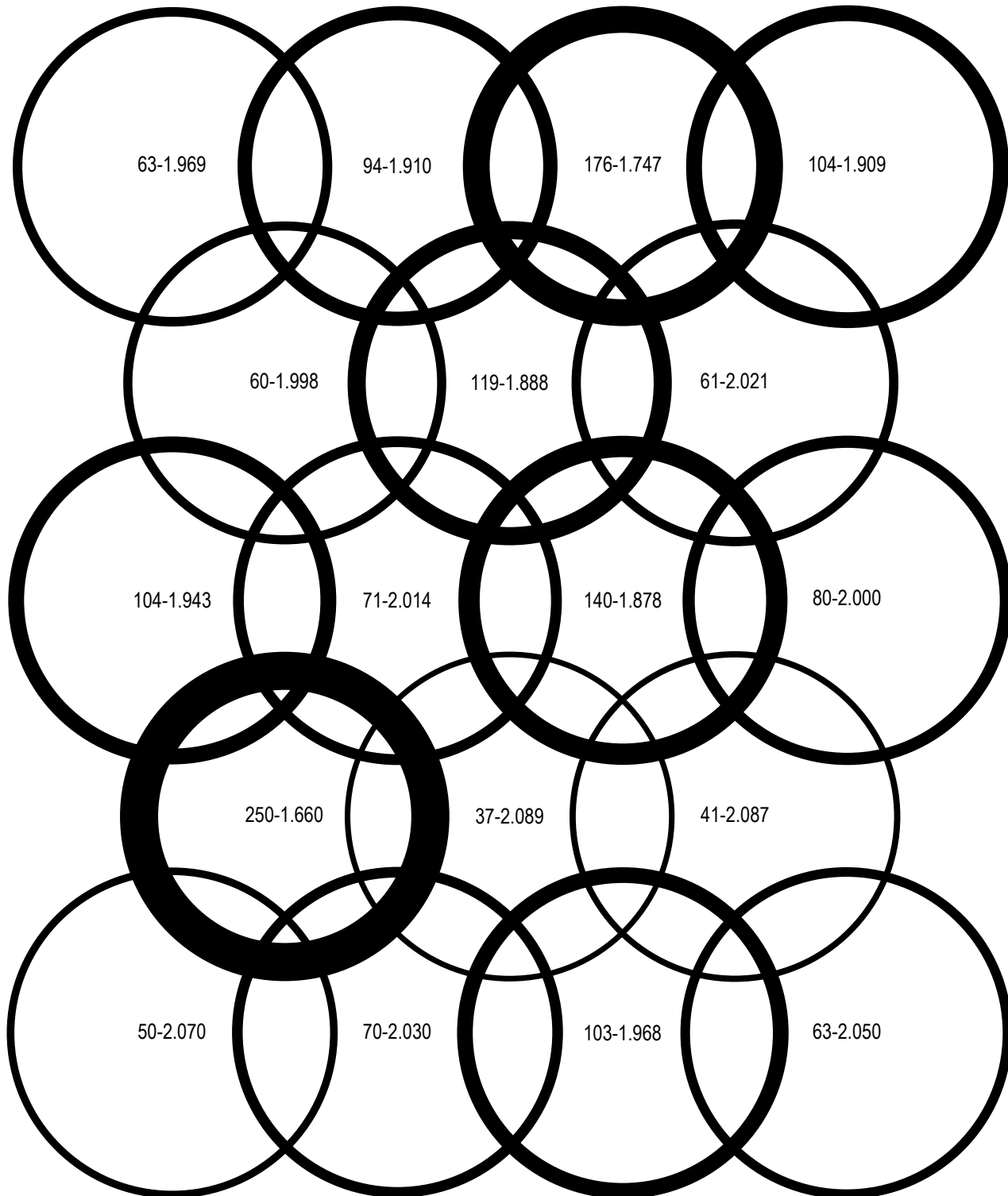
www.PrecisionAssoc.com



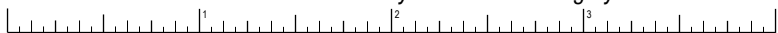
Special Size O-Rings



2.095" — 2.176" O.D.



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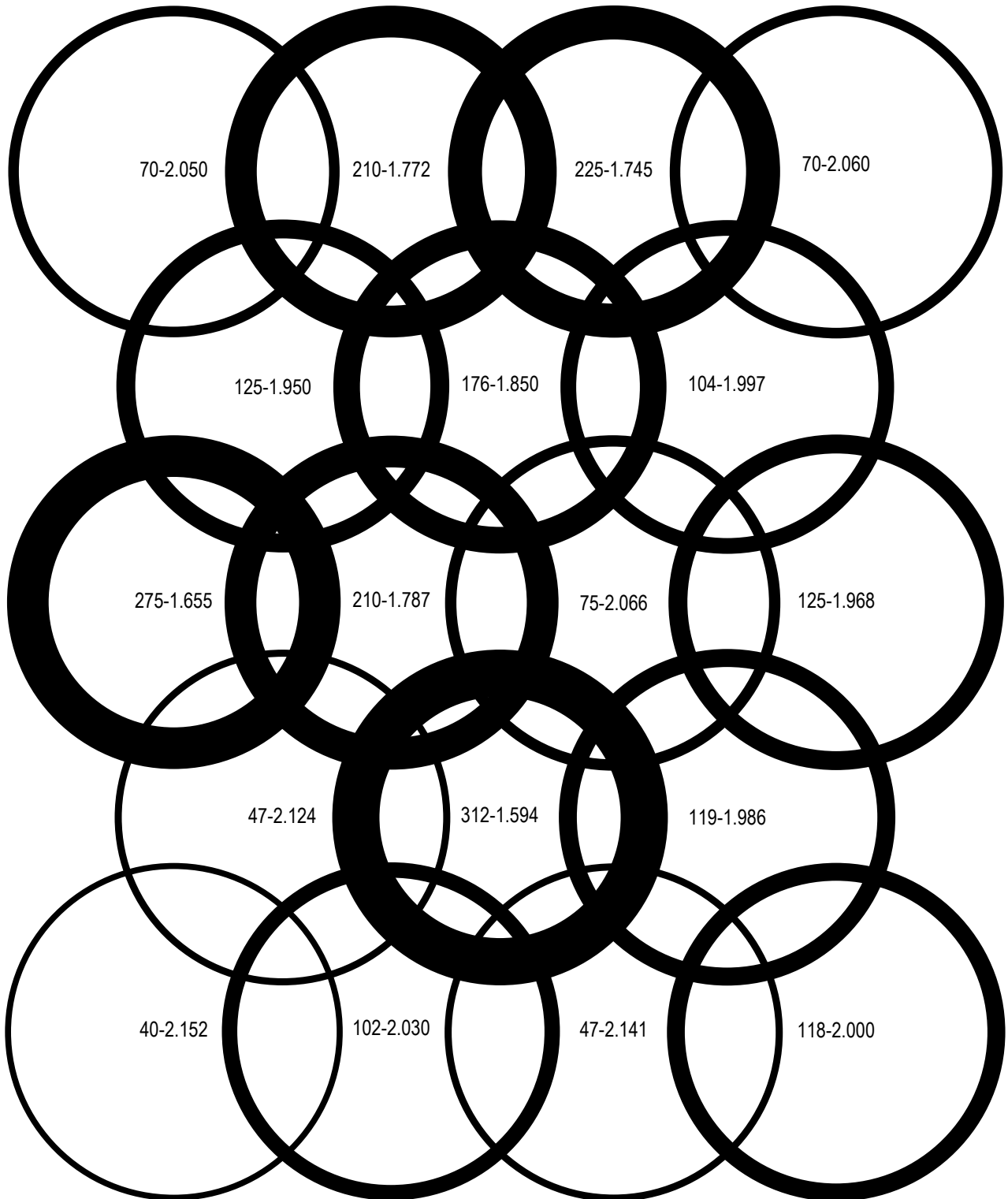
www.PrecisionAssoc.com



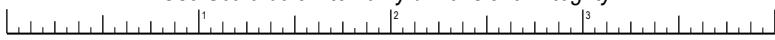
Special Size O-Rings



2.190" — 2.236" O.D.



Use Scale below to verify dimensional integrity



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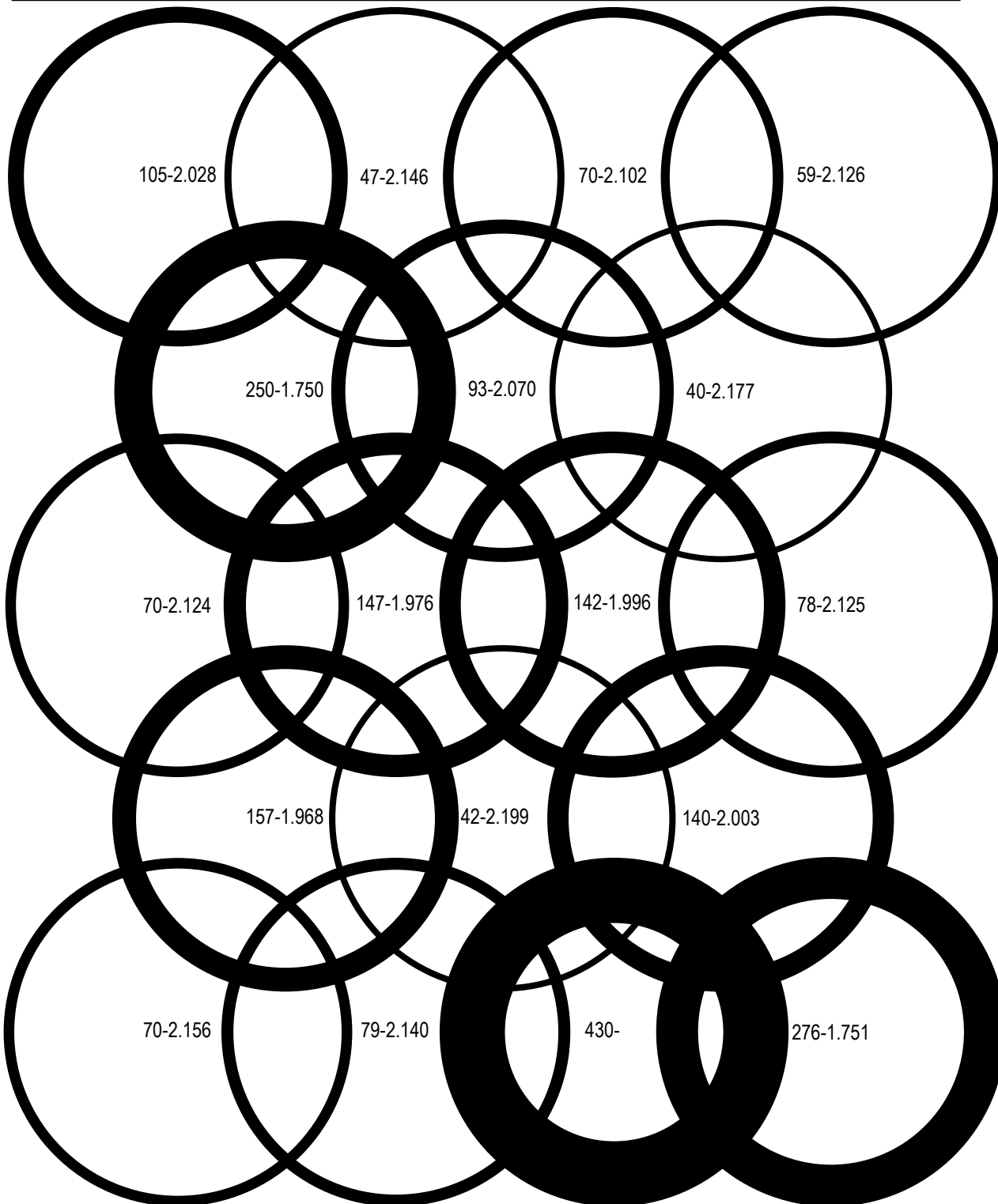
www.PrecisionAssoc.com



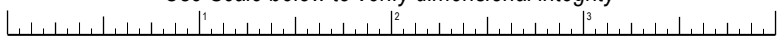
Special Size O-Rings



2.238" — 2.303" O.D.



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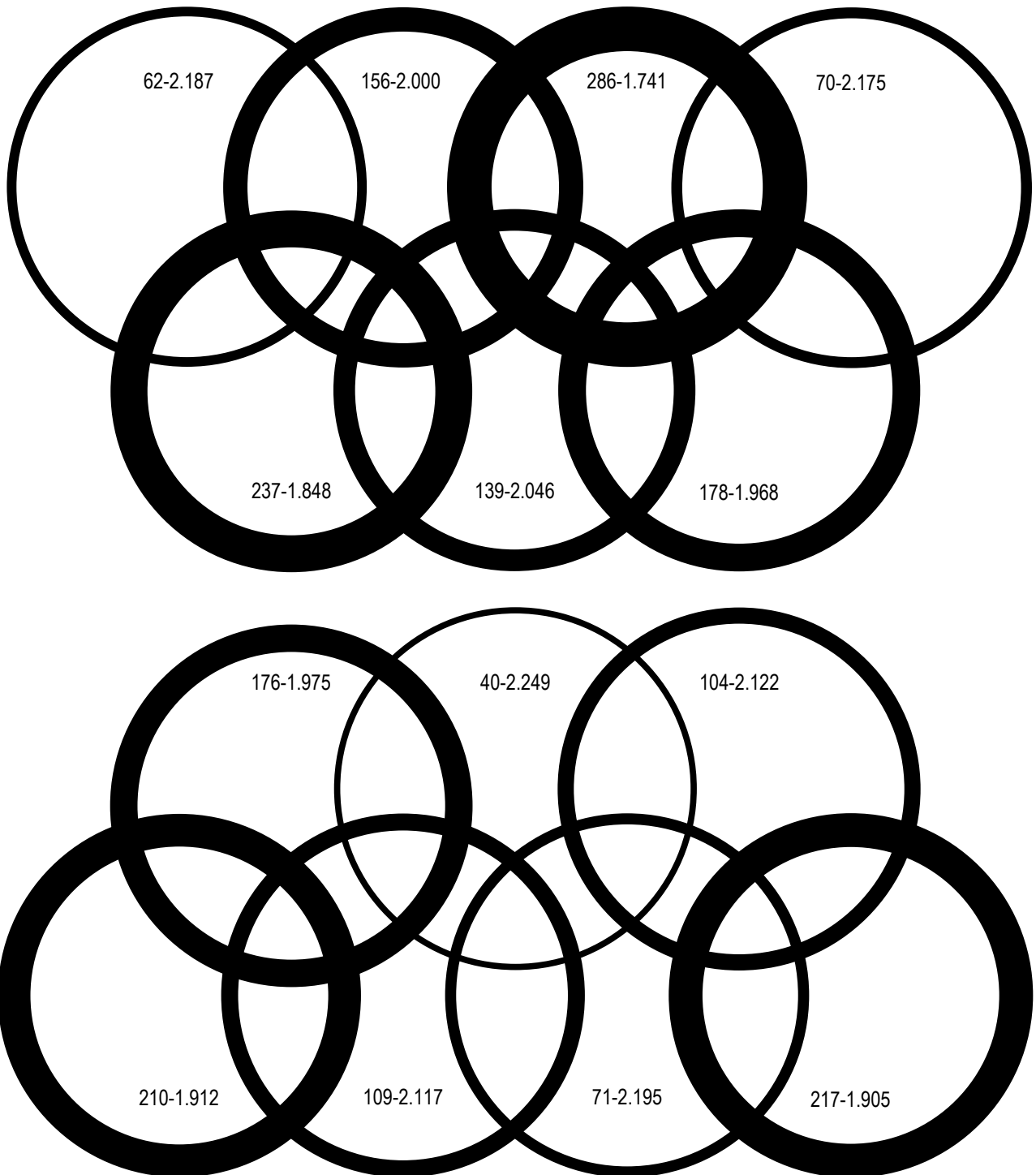
www.PrecisionAssoc.com



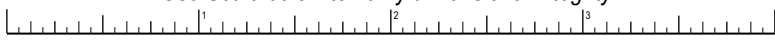
Special Size O-Rings



2.311" — 2.339 O.D.



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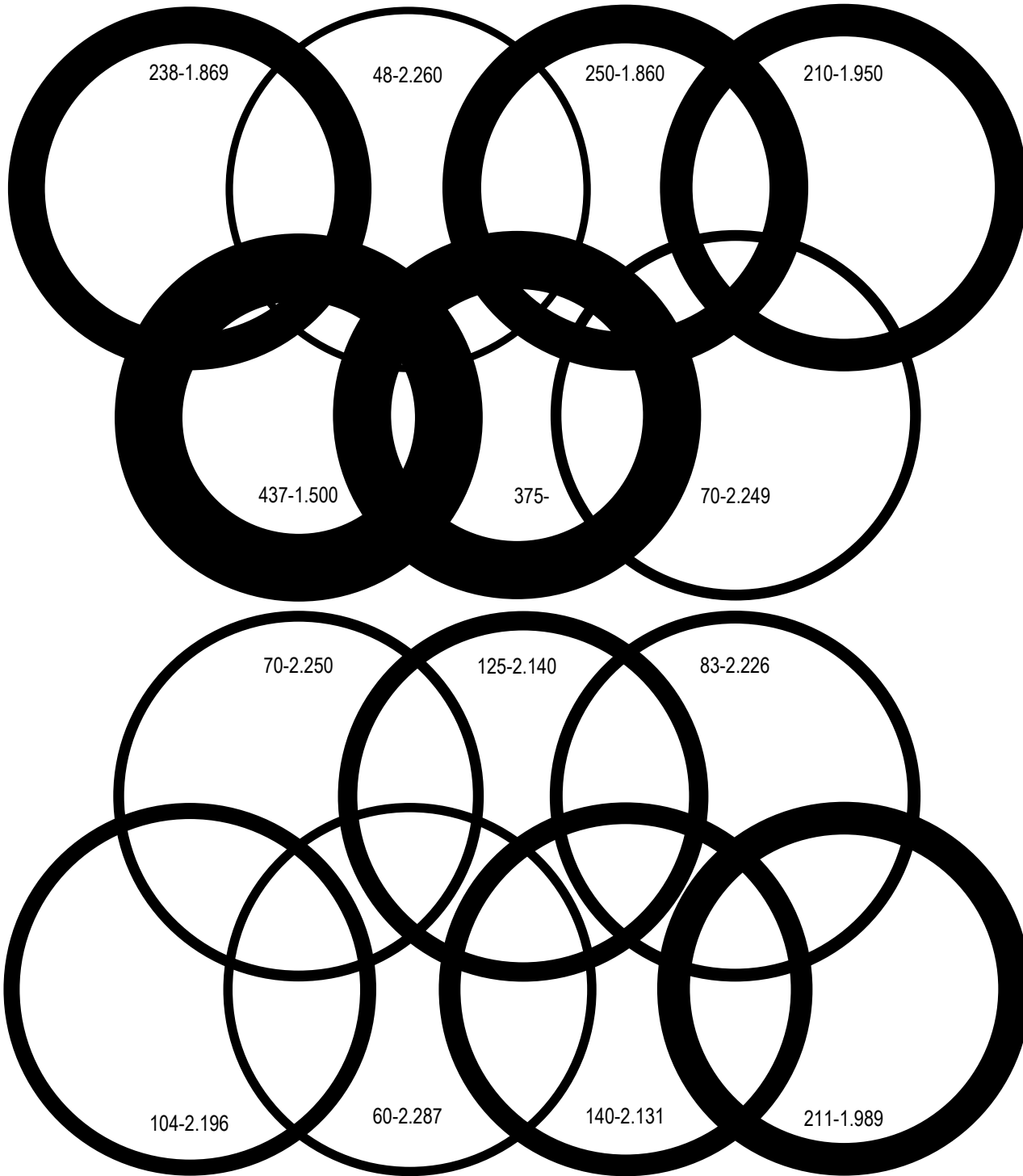
www.PrecisionAssoc.com



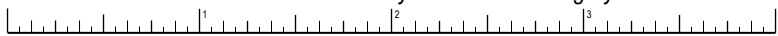
Special Size O-Rings



2.345" — 2.411" O.D.



Use Scale below to verify dimensional integrity



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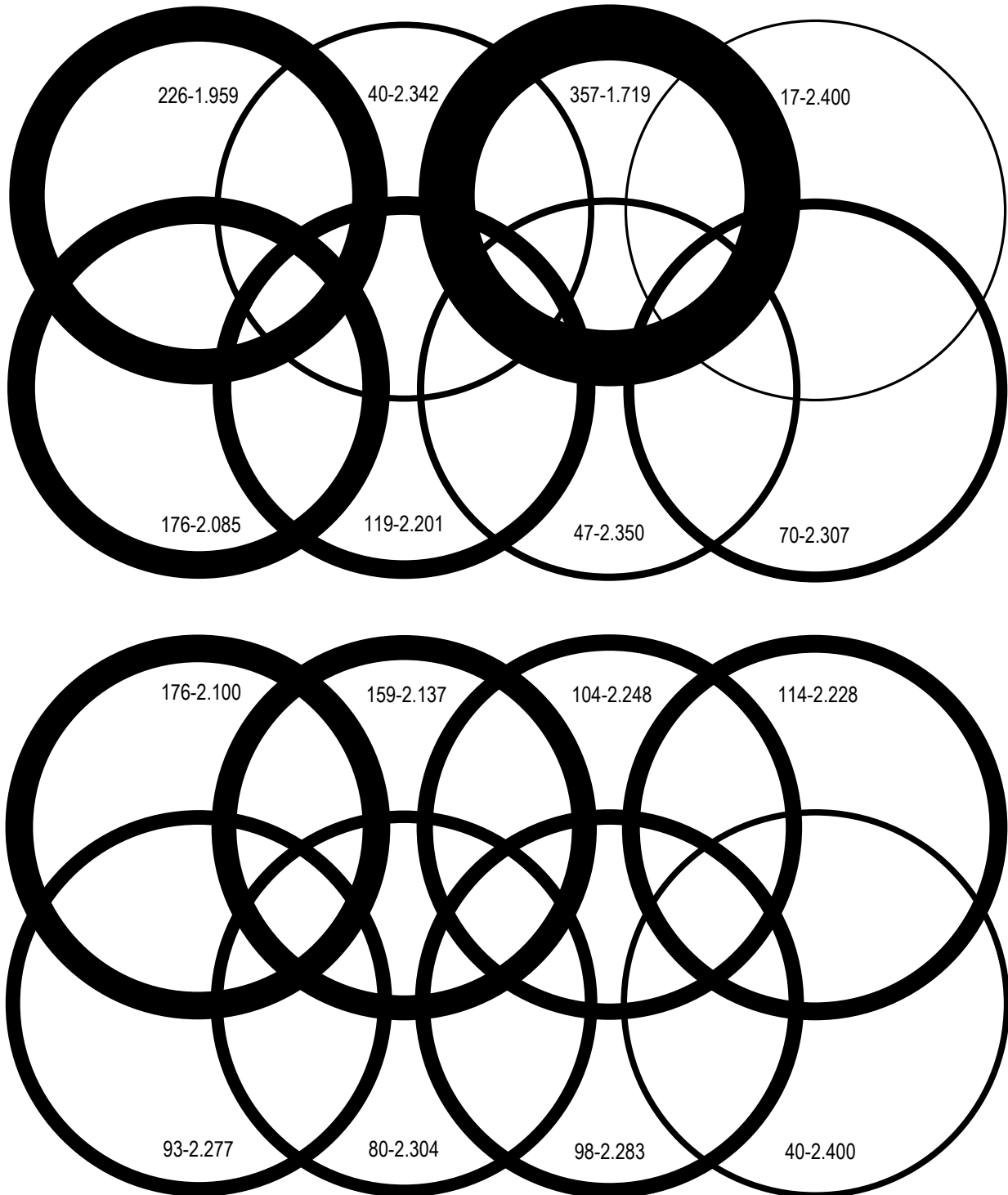
www.PrecisionAssoc.com



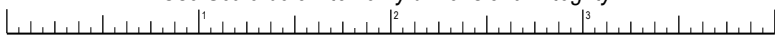
Special Size O-Rings



2.411" — 2.480" O.D.



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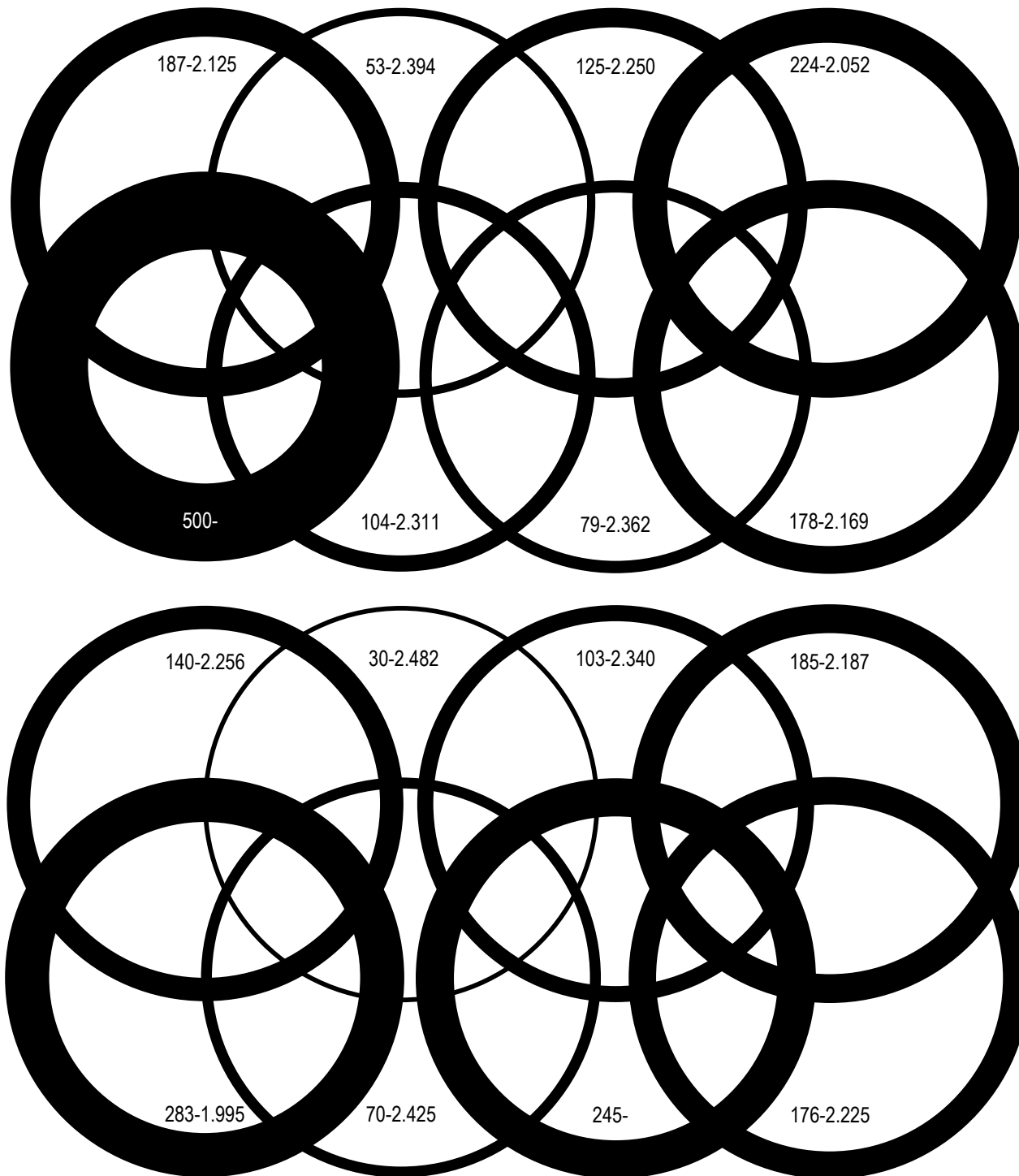
www.PrecisionAssoc.com



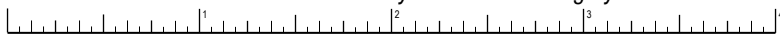
Special Size O-Rings



2.499" — 2.577" O.D.



Use Scale below to verify dimensional integrity



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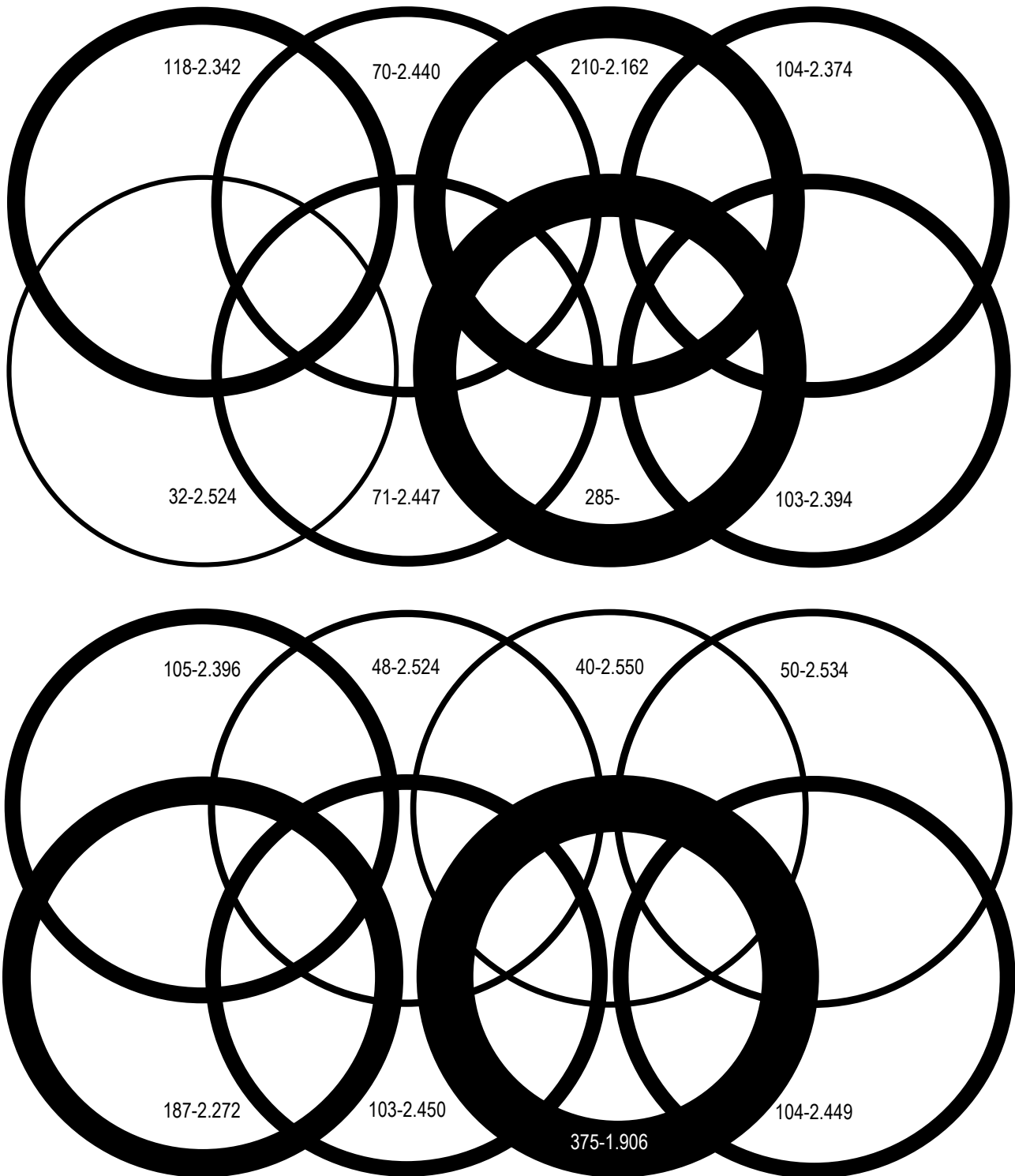
www.PrecisionAssoc.com



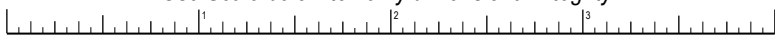
Special Size O-Rings



2.578" — 2.657" O.D.



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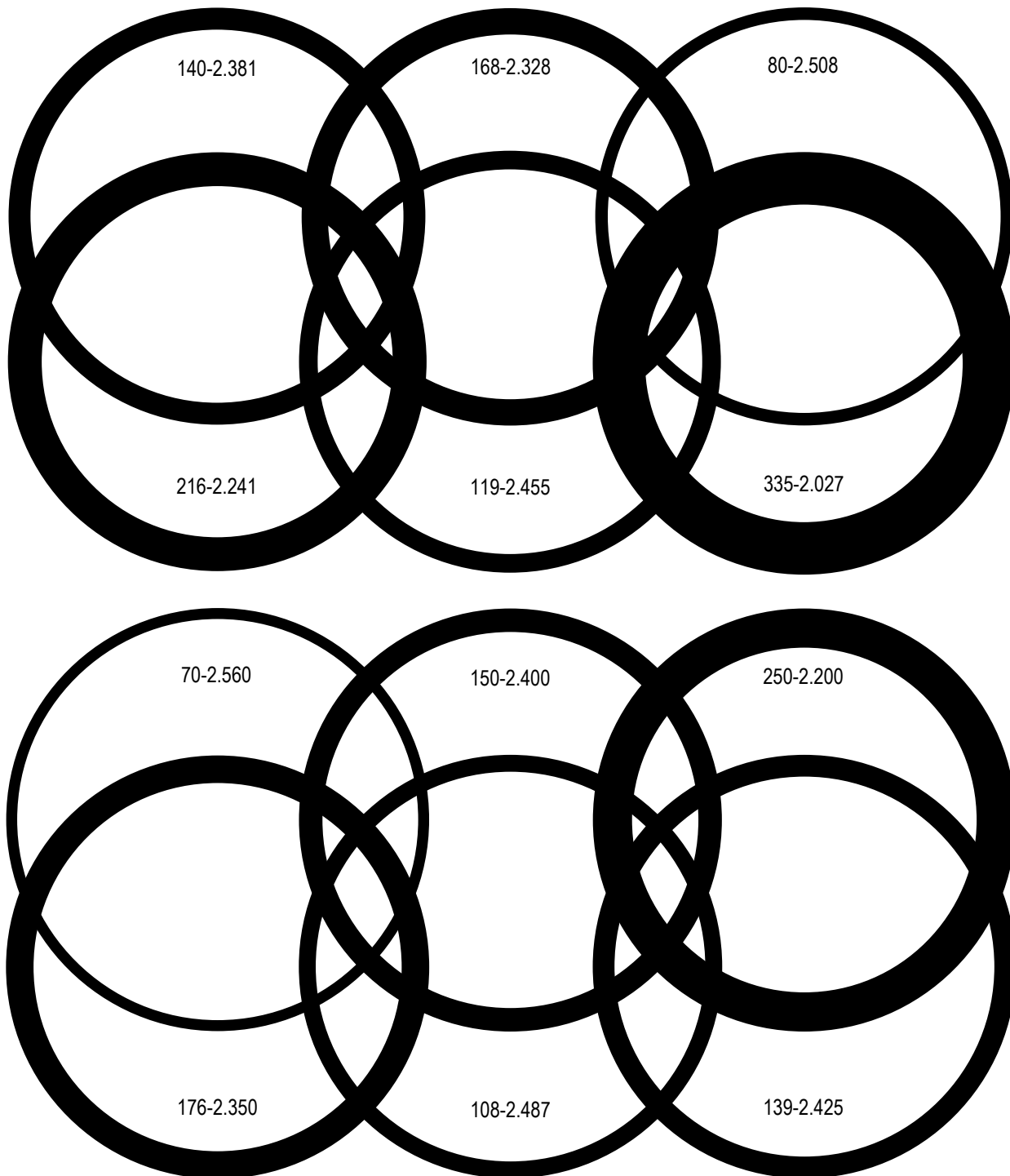
www.PrecisionAssoc.com



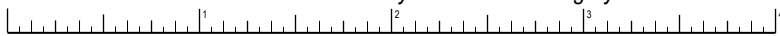
Special Size O-Rings



2.661" — 2.703" O.D.



Use Scale below to verify dimensional integrity



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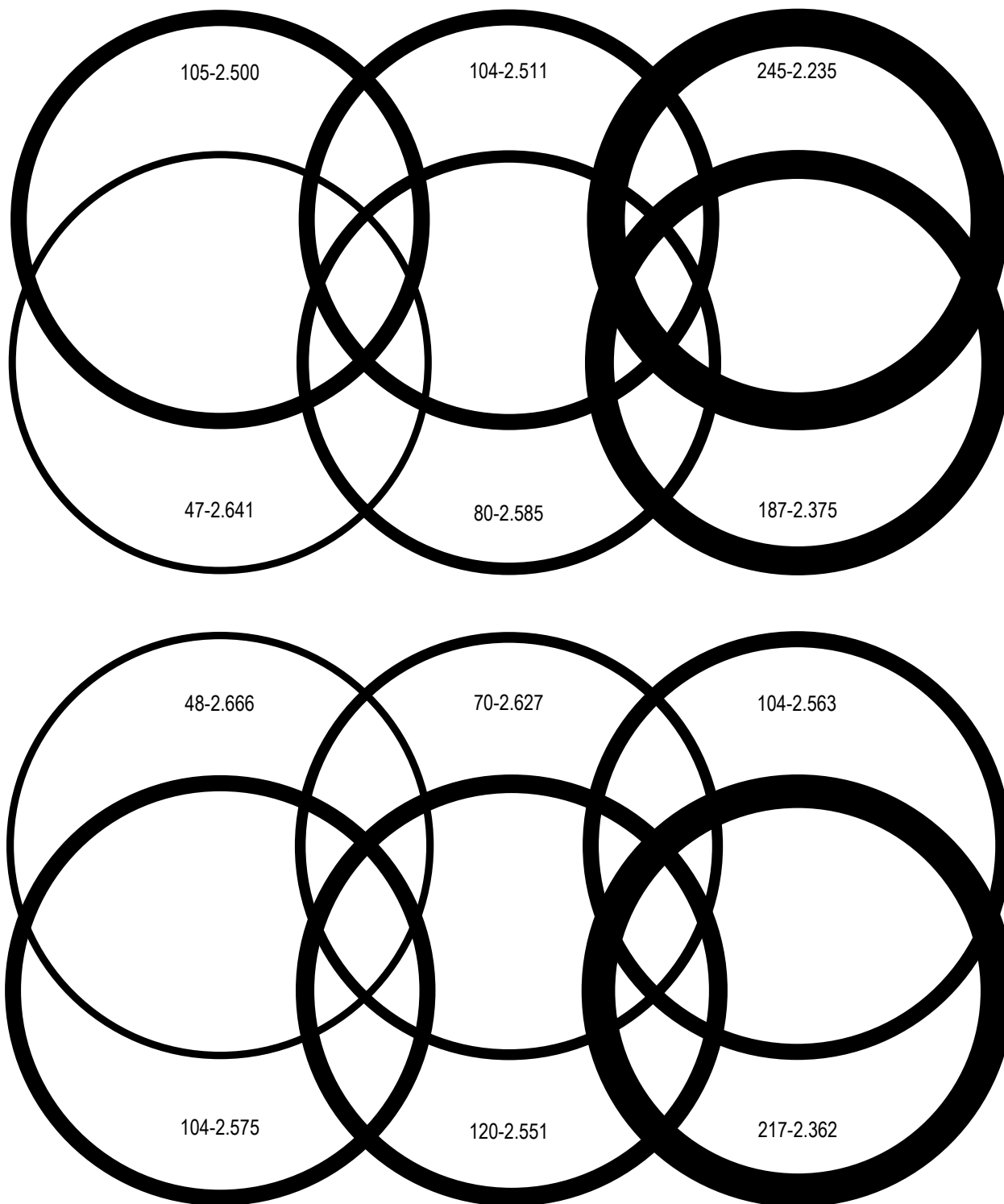
www.PrecisionAssoc.com



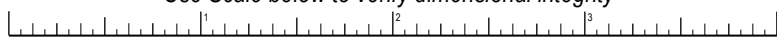
Special Size O-Rings



2.710" — 2.796" O.D.



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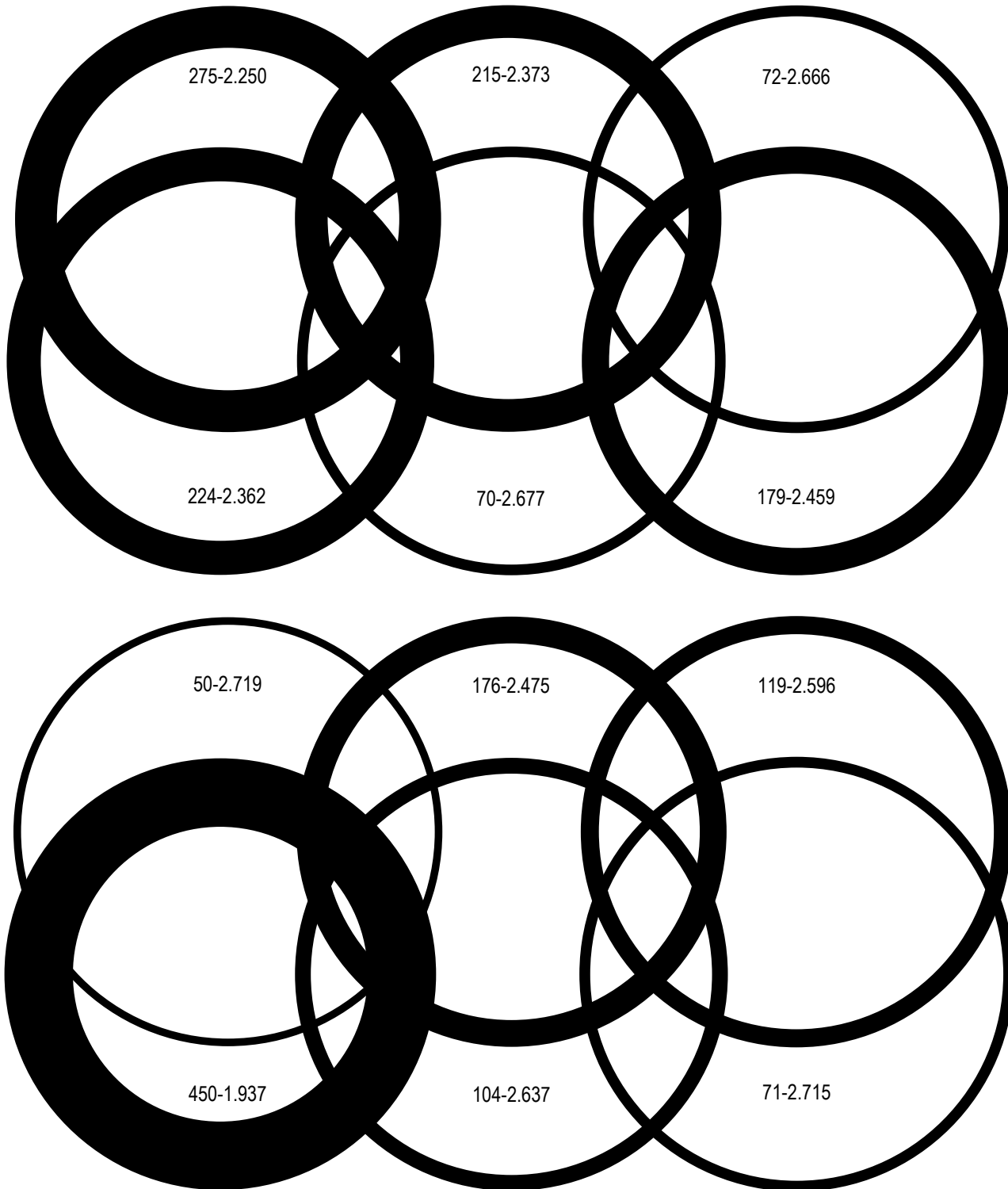




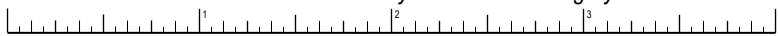
Special Size O-Rings



2.800" — 2.857" O.D.



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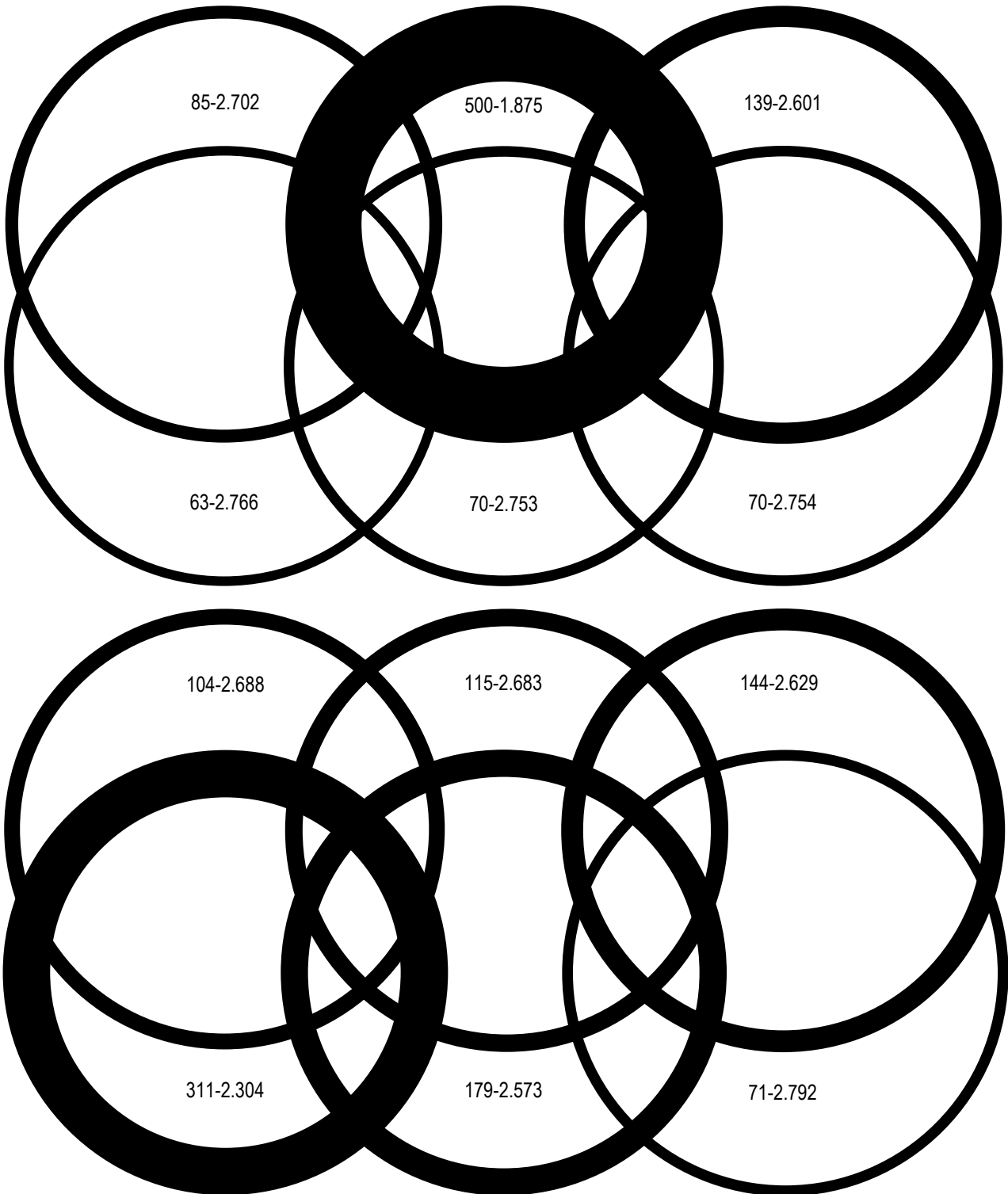
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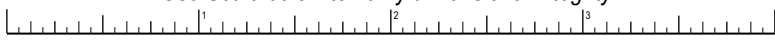
Special Size O-Rings



2.872" — 2.934" O.D.



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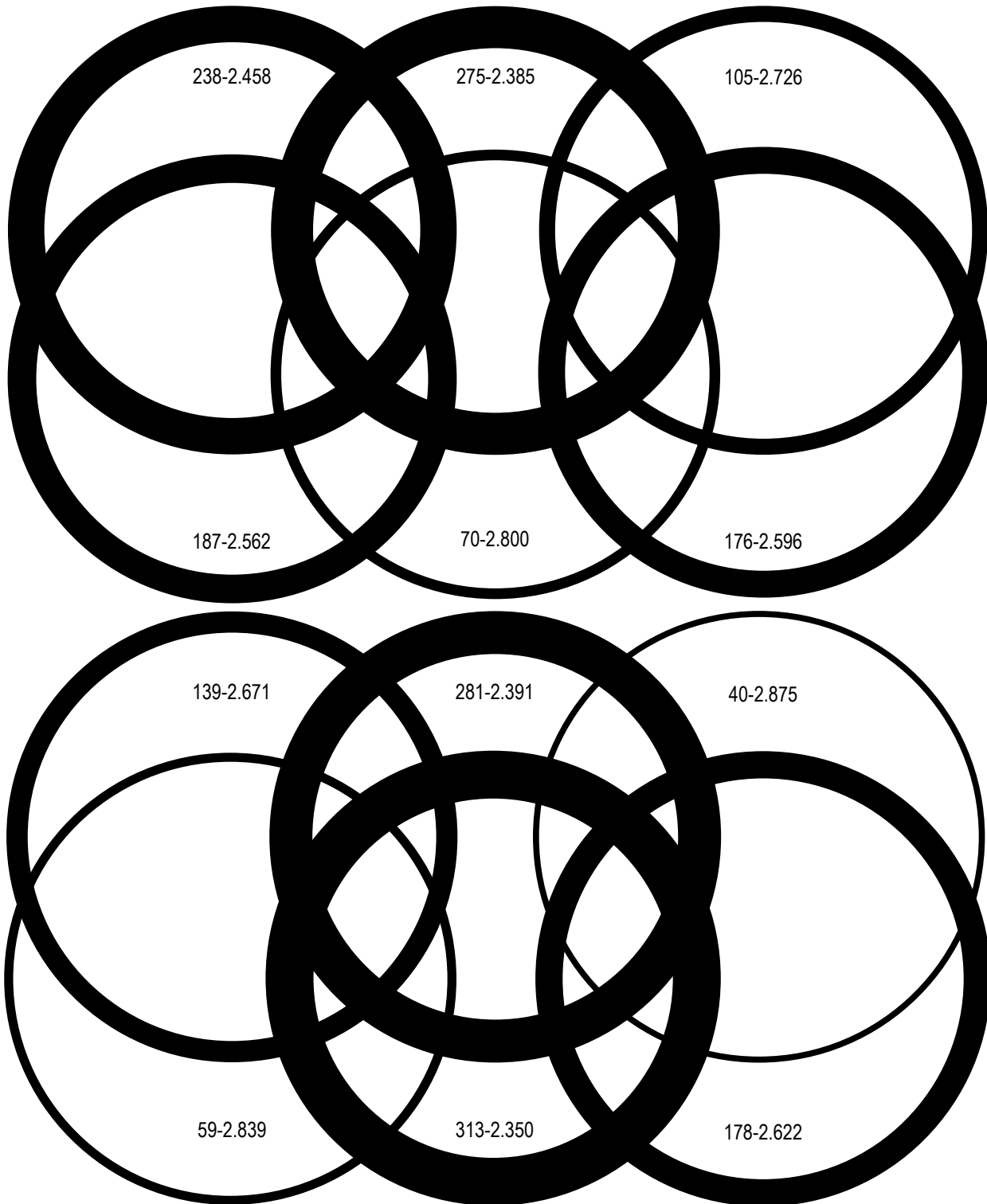
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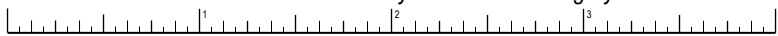
Special Size O-Rings



2.934" — 2.978" O.D.



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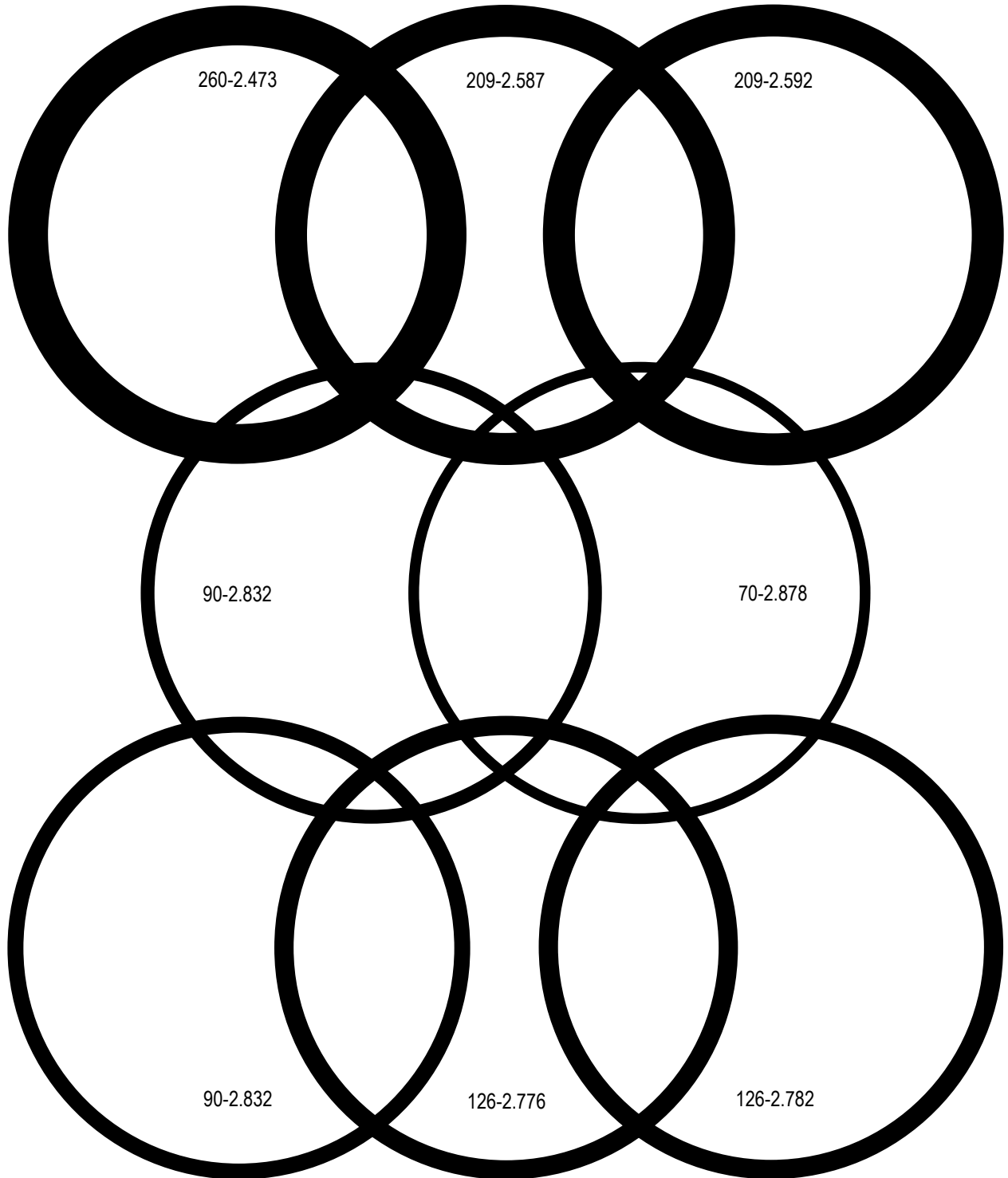
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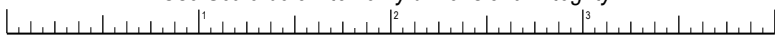
Special Size O-Rings



2.993" — 3.034" O.D.



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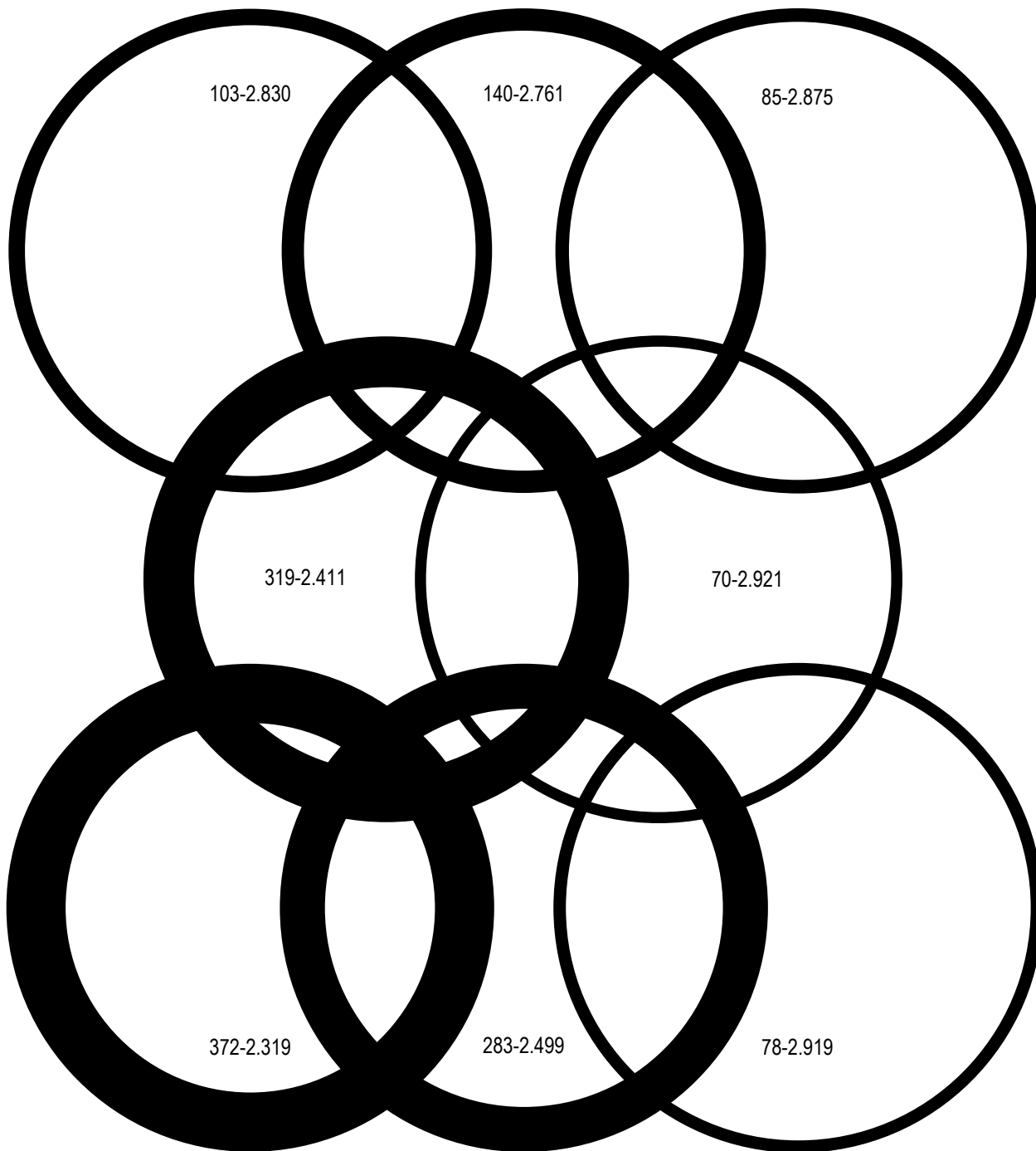
www.PrecisionAssoc.com



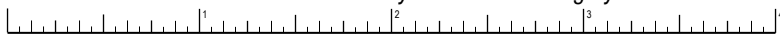
Special Size O-Rings



3.036" — 3.075" O.D.



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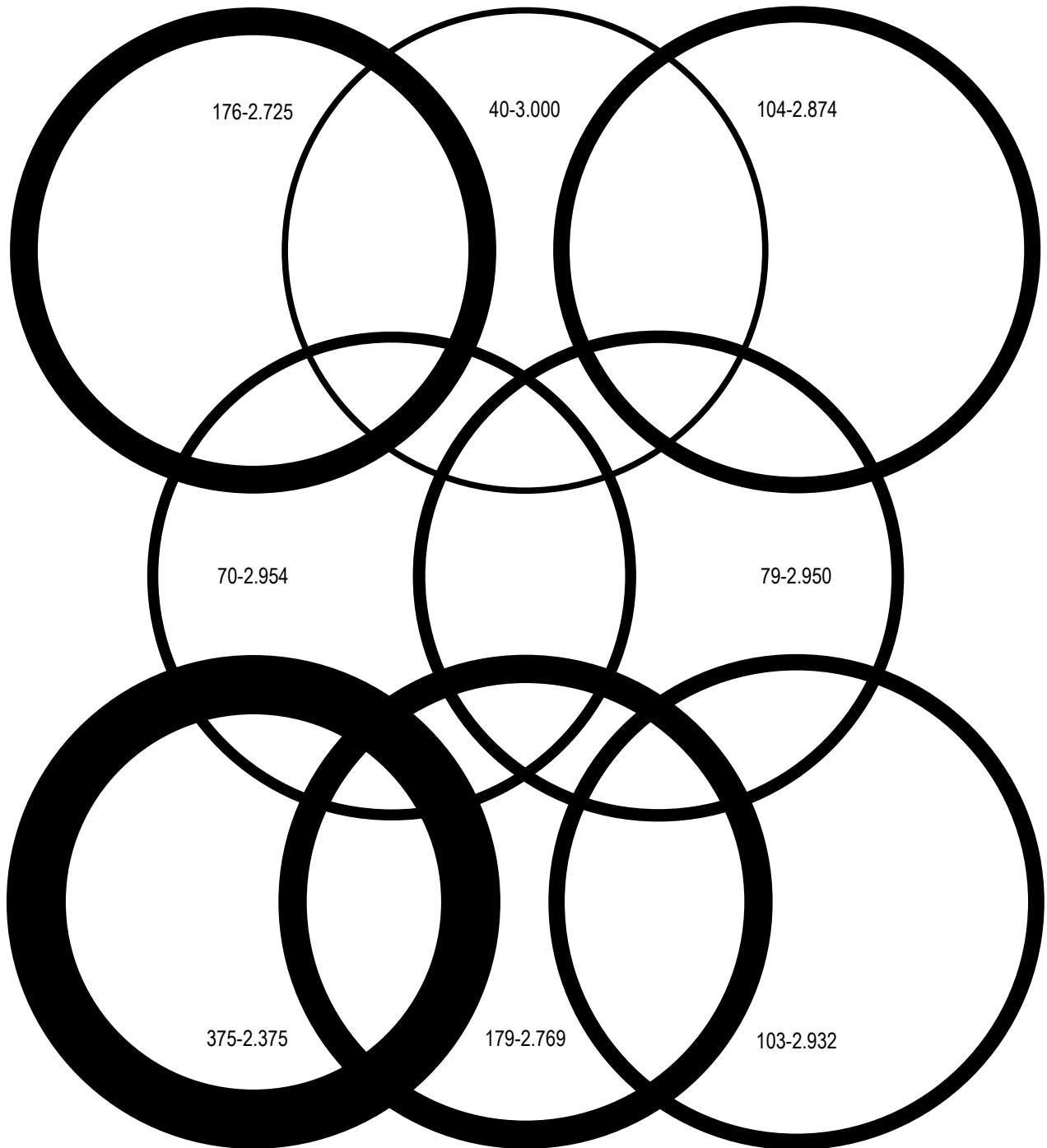
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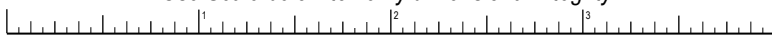
Special Size O-Rings



3.077" — 3.138" O.D.



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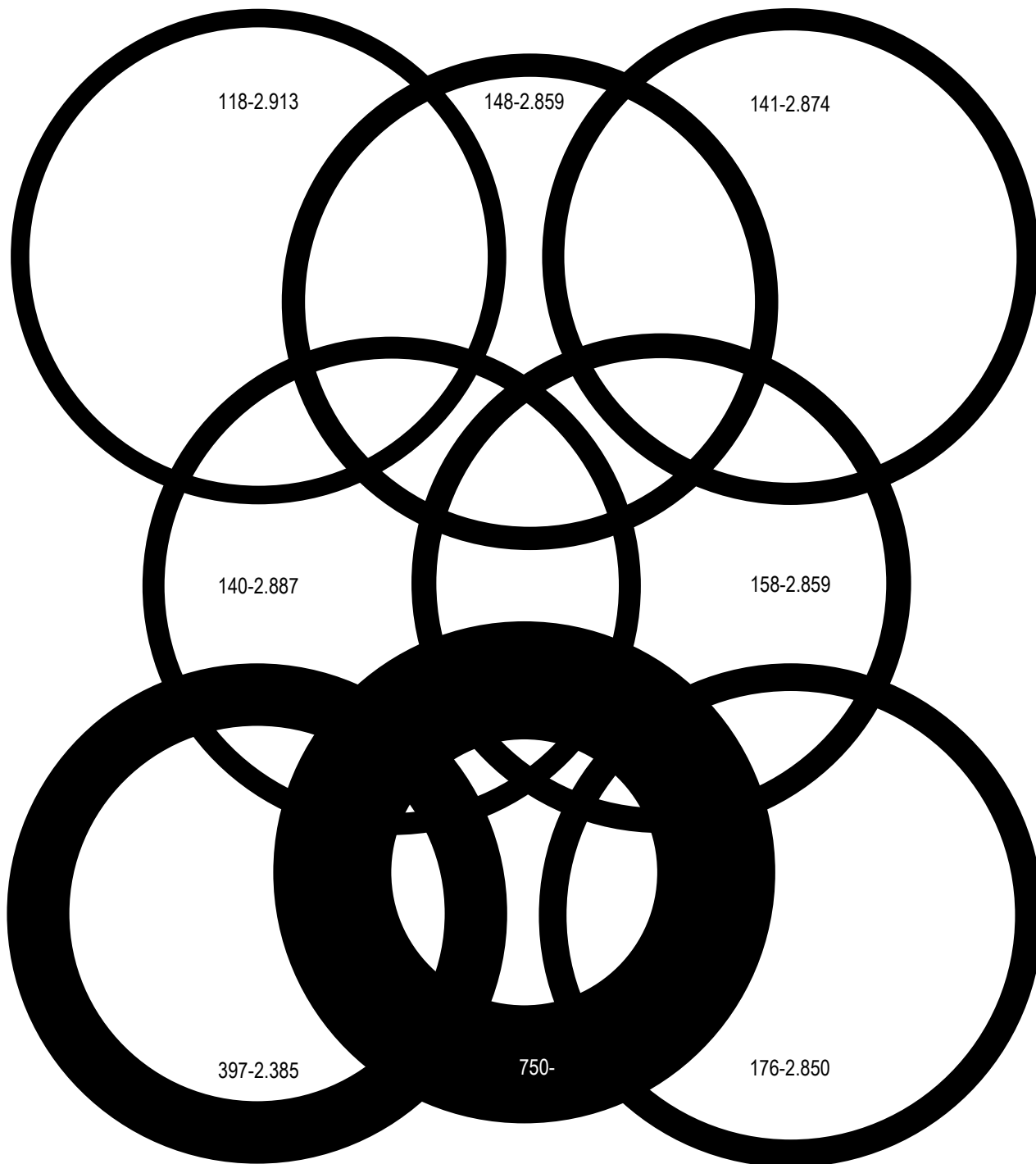




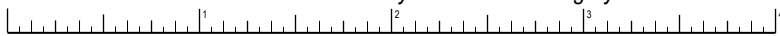
Special Size O-Rings



3.149" — 3.202" O.D.



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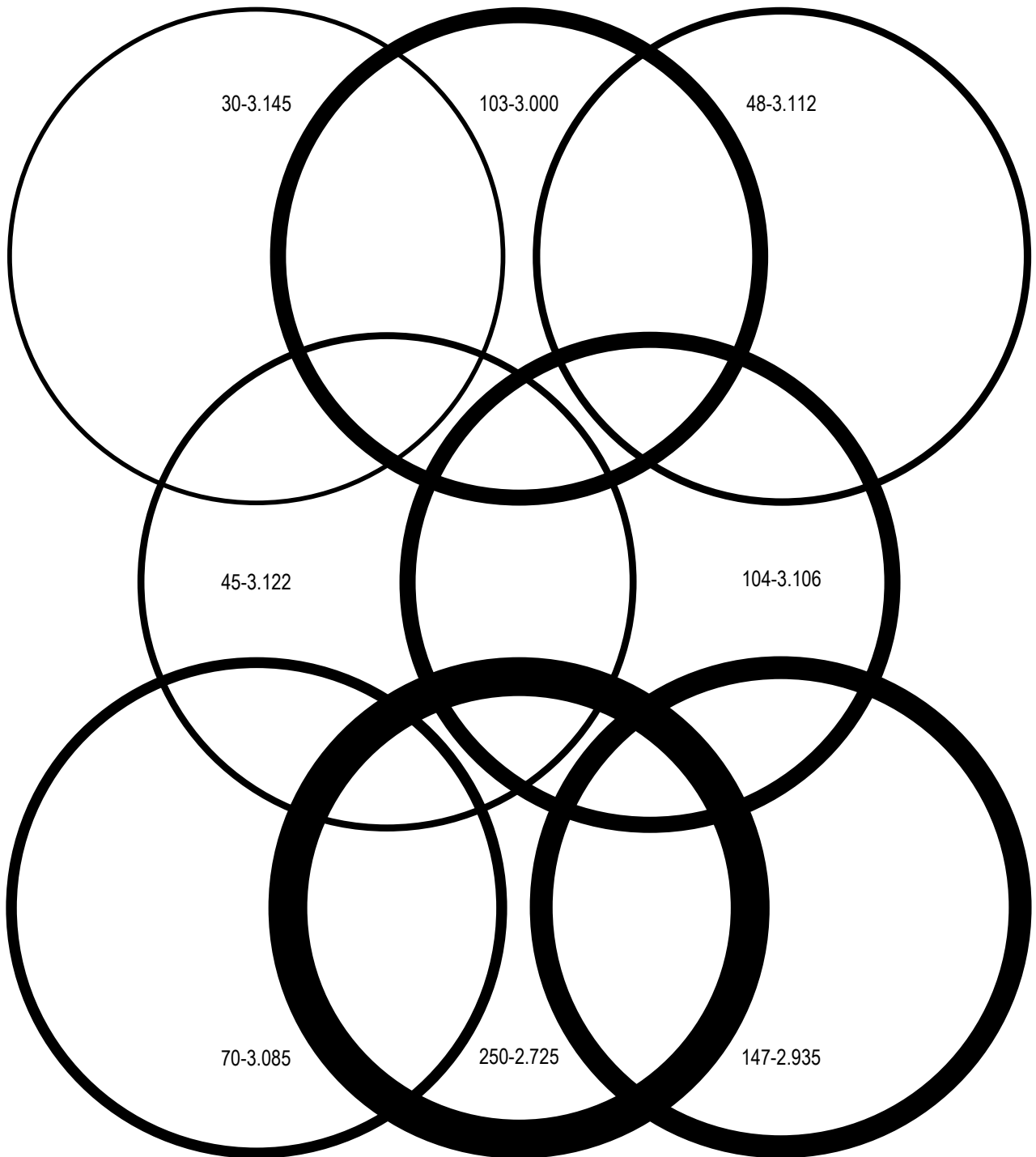
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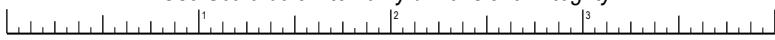
Special Size O-Rings



3.205" — 3.229" O.D.



Use Scale below to verify dimensional integrity



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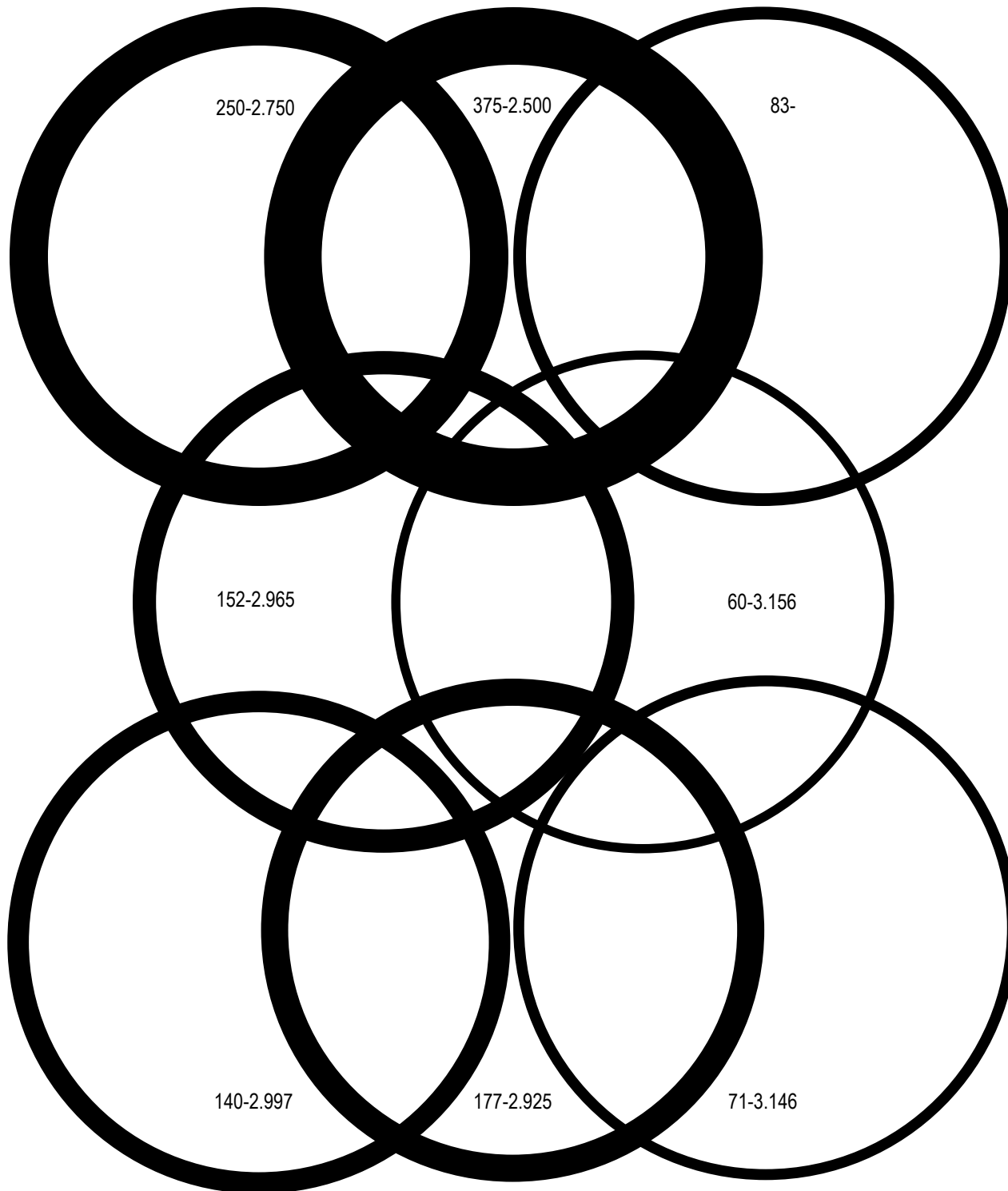




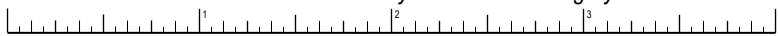
Special Size O-Rings



3.250" — 3.288" O.D.



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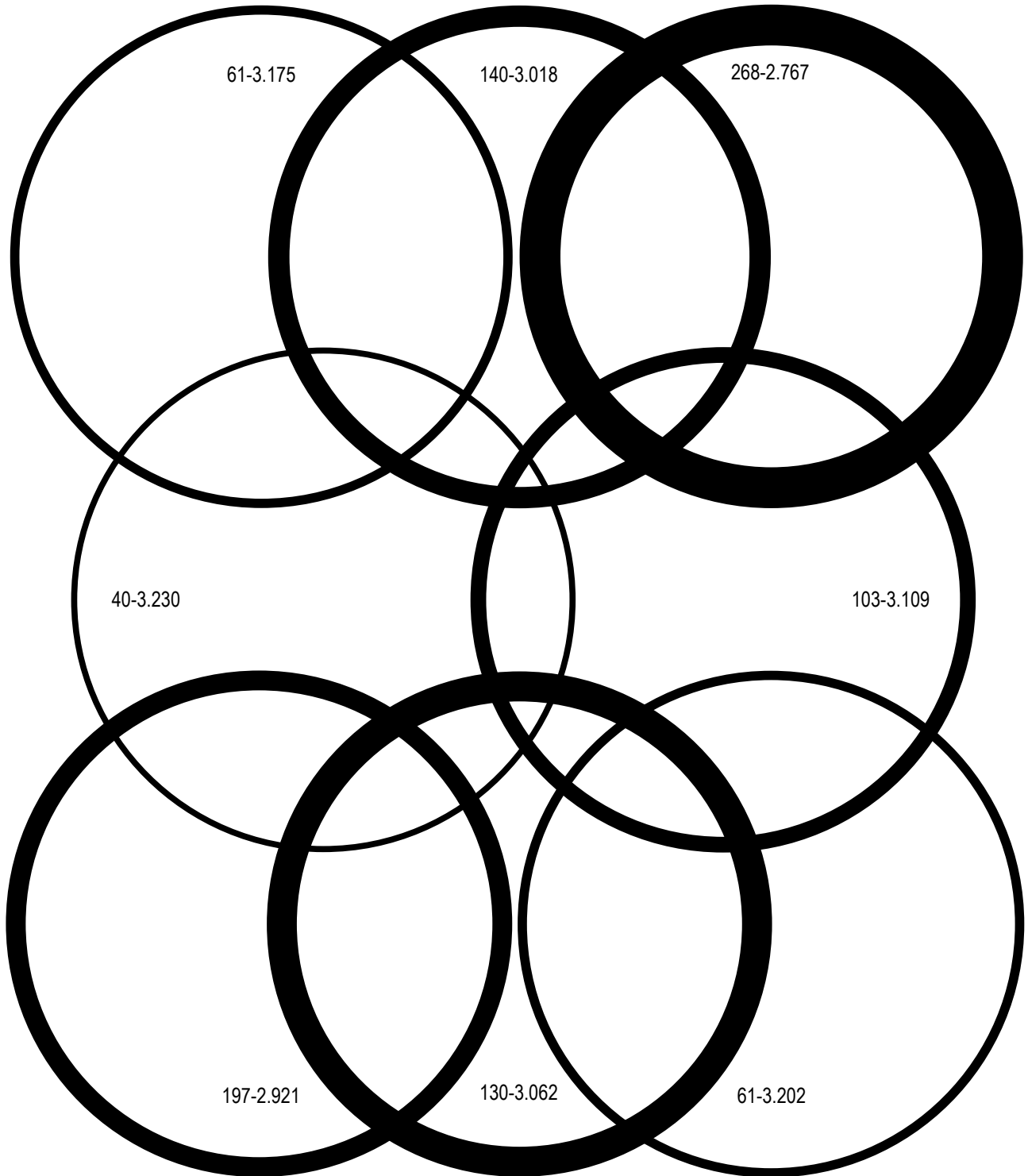
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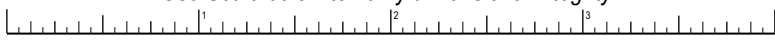
Special Size O-Rings



3.297" — 3.324" O.D.



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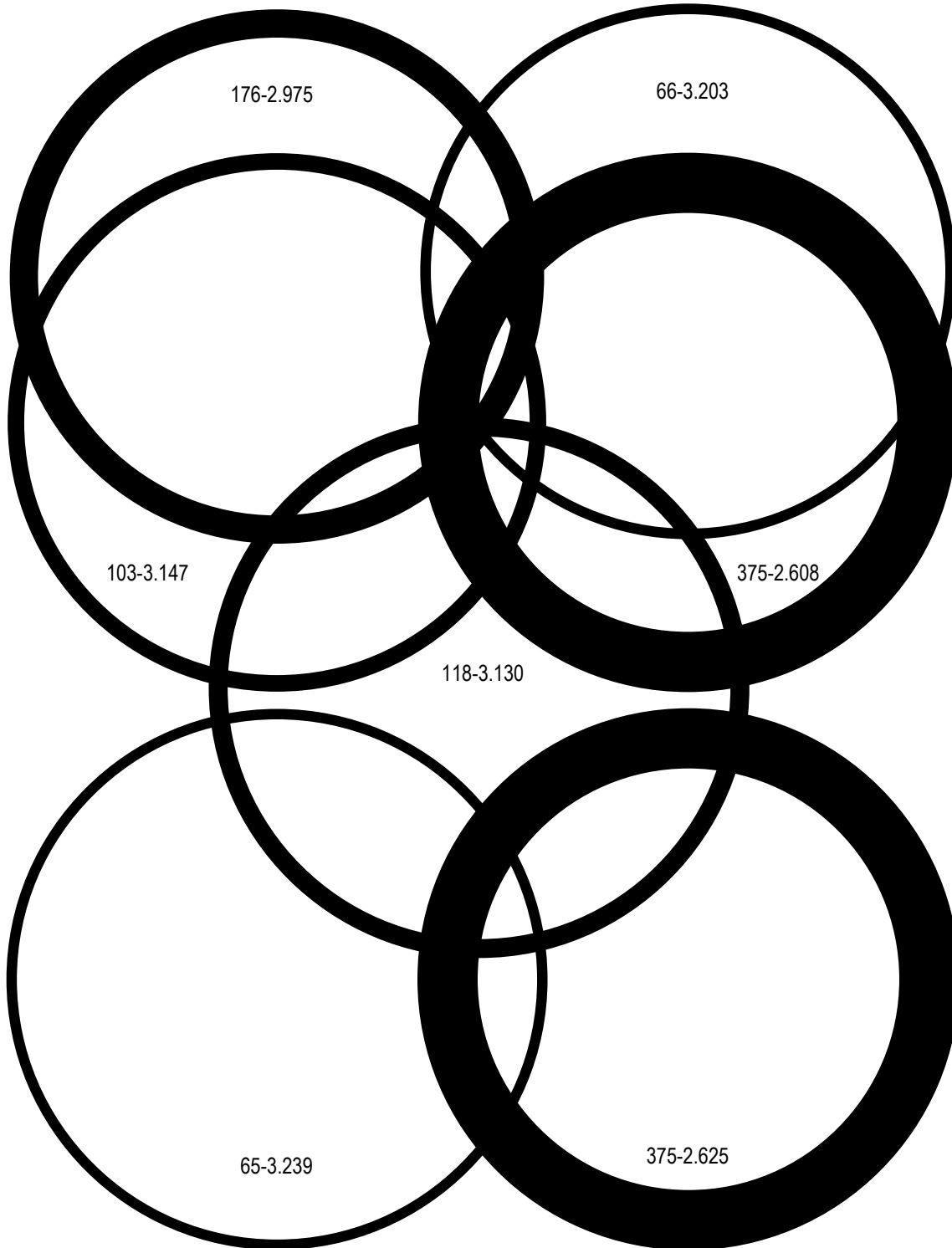
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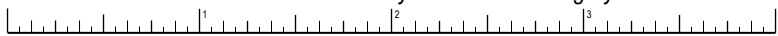
Special Size O-Rings



3.327" — 3.375" O.D.



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Fax: (612) 342-2417
Toll: (800) 394-6590

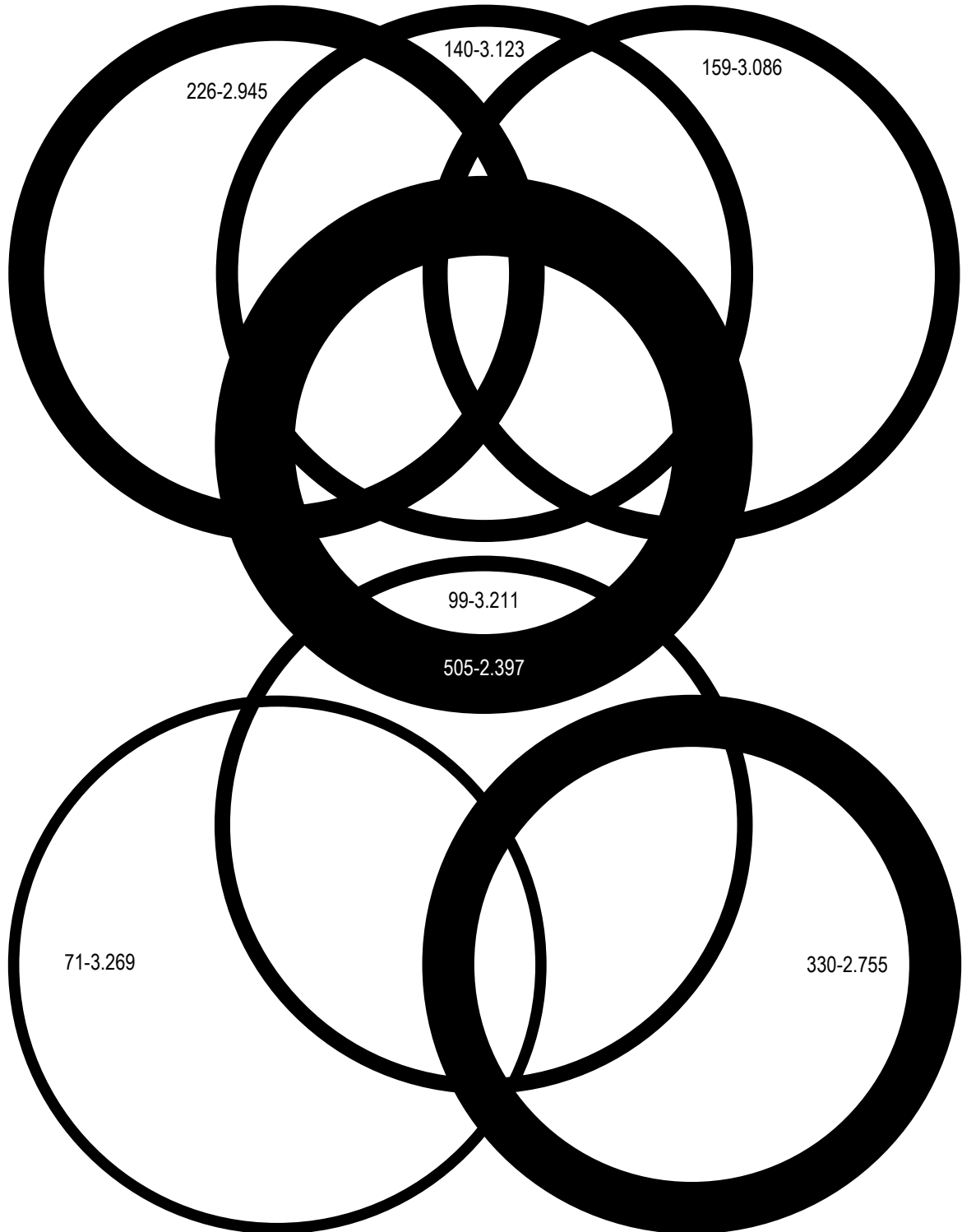
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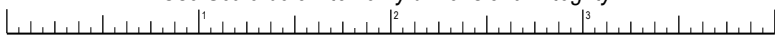
Special Size O-Rings



3.397" — 3.415" O.D.



Use Scale below to verify dimensional integrity



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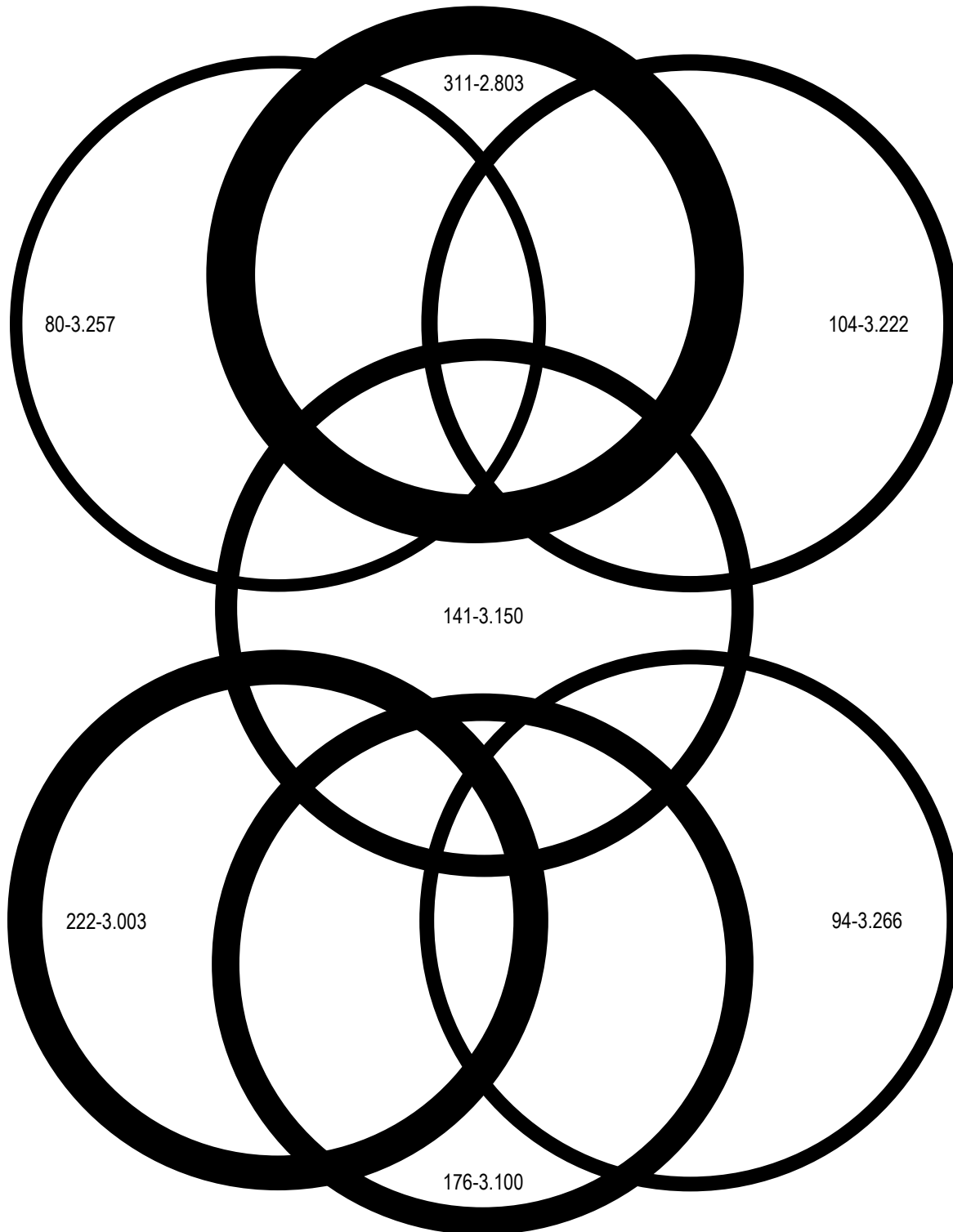
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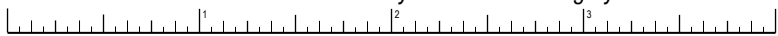
Special Size O-Rings



3.417" — 3.454" O.D.



Use Scale below to verify dimensional integrity



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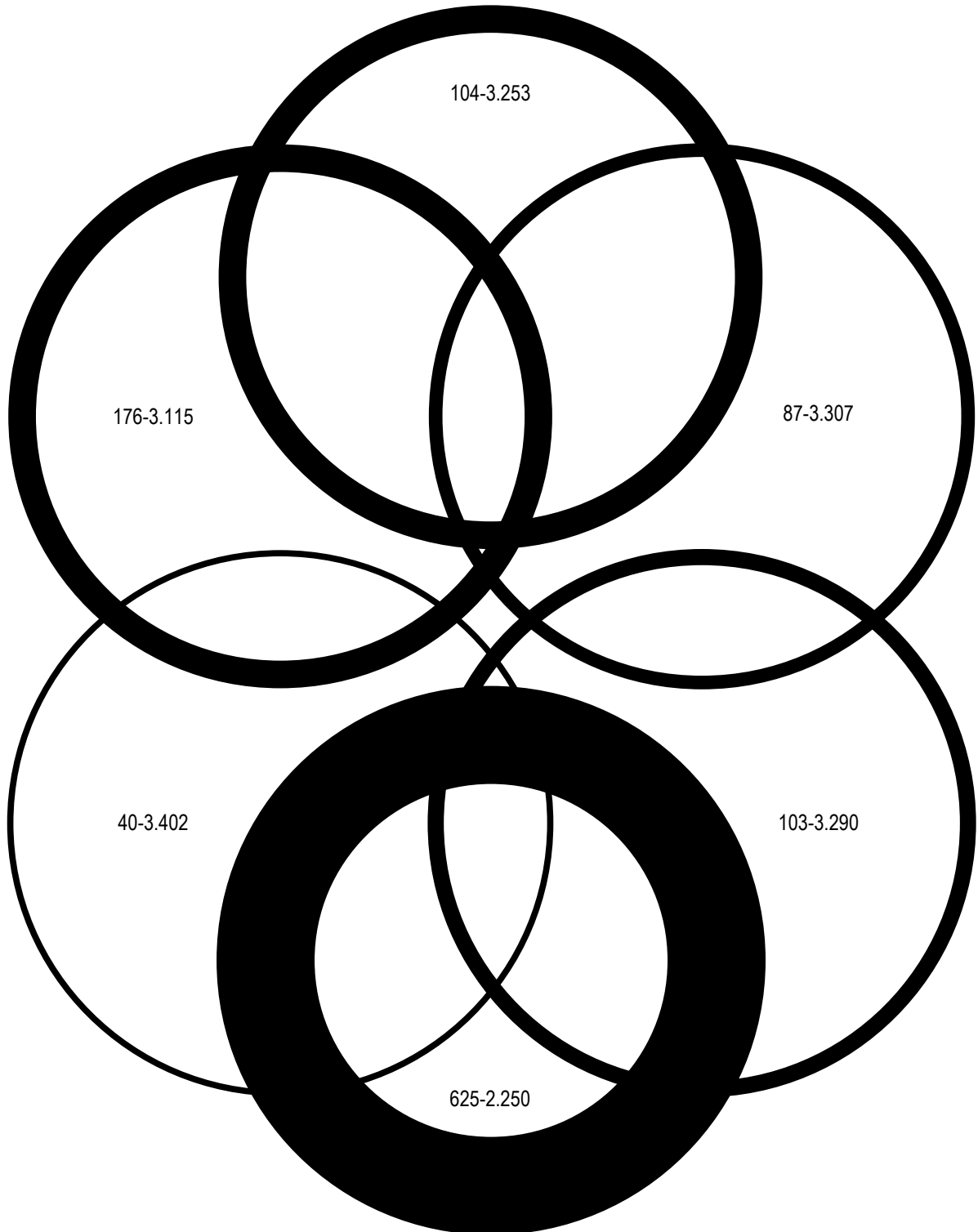
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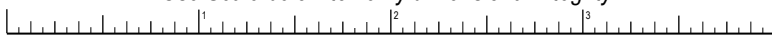
Special Size O-Rings



3.461" — 3.500" O.D.



Use Scale below to verify dimensional integrity



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Special Size O-Rings



Mold IDen	C/S	ID	OD
70-3.376NS	0.070	3.369	3.509
140-3.248	0.140	3.248	3.528
80-3.375	0.080	3.375	3.535
312-2.875SS	0.315	2.905	3.535
46-3.455	0.046	3.455	3.547
141-3.282	0.141	3.282	3.564
103-3.359	0.103	3.359	3.565
103-3.362	0.103	3.362	3.568
176-3.225	0.176	3.225	3.577
70-3.440	0.070	3.440	3.580
170-3.253	0.170	3.253	3.593
214-3.166	0.214	3.166	3.594
103-3.400	0.103	3.400	3.606
70-3.474	0.070	3.474	3.614
103-3.410ES	0.103	3.415	3.621
375-2.875	0.375	2.875	3.625
185-3.260	0.185	3.260	3.630
111-3.422	0.111	3.422	3.644
140-3.374	0.140	3.374	3.654
80-3.500	0.080	3.500	3.660
71-3.523	0.071	3.523	3.665
80-3.483VS	0.081	3.509	3.671
84-3.506	0.084	3.506	3.674
103-3.460ES	0.103	3.469	3.675
212-3.255	0.212	3.255	3.679
375-2.930	0.375	2.930	3.680
187-3.312	0.187	3.312	3.686
70-3.562	0.070	3.562	3.702
176-3.350	0.176	3.350	3.702
370-2.982	0.370	2.982	3.722
104-3.520	0.104	3.520	3.728
437-2.875	0.437	2.875	3.749
75-3.600	0.075	3.600	3.750
250-3.250	0.250	3.250	3.750
152-3.420VS	0.153	3.449	3.755
50-3.670	0.050	3.661	3.761
58-3.645	0.058	3.645	3.761
122-3.520	0.122	3.520	3.764
140-3.500	0.140	3.500	3.780
211-3.366	0.211	3.366	3.788
310-3.136SS	0.313	3.165	3.791
203-3.375	0.204	3.384	3.792
330-3.137	0.330	3.137	3.797
50-3.670SS	0.050	3.704	3.804
125-3.562	0.125	3.562	3.812
156-3.500	0.156	3.500	3.812

Mold IDen	C/S	ID	OD (Ref)
103-3.612	0.103	3.612	3.818
176-3.475	0.176	3.475	3.827
90-3.661	0.090	3.661	3.841
125-3.543SS	0.127	3.597	3.851
275-3.252SS	0.279	3.299	3.857
179-3.522	0.178	3.510	3.866
125-3.640	0.125	3.640	3.890
140-3.625	0.140	3.625	3.905
71-3.776	0.071	3.776	3.918
95-3.744	0.095	3.744	3.934
147-3.656	0.147	3.656	3.950
176-3.600	0.176	3.600	3.952
312-3.300SS	0.315	3.331	3.961
104-3.755	0.104	3.755	3.963
70-3.833ES	0.070	3.845	3.985
230-3.475VS	0.233	3.521	3.987
70-3.840ES	0.070	3.851	3.991
70-3.860	0.070	3.860	4.000
150-3.734	0.150	3.734	4.034
140-3.757	0.140	3.757	4.037
103-3.837	0.103	3.837	4.043
118-3.819	0.118	3.819	4.055
212-3.635	0.212	3.635	4.059
210-3.640	0.210	3.640	4.060
212-3.641	0.212	3.641	4.065
248-3.575	0.248	3.575	4.071
300-3.475	0.300	3.475	4.075
70-3.937	0.070	3.937	4.077
176-3.725	0.176	3.725	4.077
125-3.750SS	0.127	3.824	4.078
103-3.875	0.103	3.891	4.097
375-3.325SS	0.377	3.346	4.100
210-3.640SS	0.212	3.678	4.102
158-3.780ES	0.159	3.799	4.117
256-3.563SS	0.260	3.614	4.134
103-3.862	0.105	3.938	4.148
140-3.876	0.140	3.876	4.156
150-3.859	0.150	3.859	4.159
71-4.028	0.071	4.028	4.170
224-3.724	0.224	3.724	4.172
139-3.910	0.139	3.910	4.188
176-3.850	0.176	3.850	4.202
40-4.140VS	0.040	4.179	4.259
140-4.008	0.140	4.008	4.288
70-4.107SS	0.071	4.147	4.289
156-3.984	0.156	3.984	4.296

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Special Size O-Rings



Mold IDen	C/S	ID	OD
103-4.093	0.103	4.093	4.299
70-4.180NS	0.070	4.172	4.312
139-4.046	0.139	4.036	4.314
103-4.109	0.103	4.109	4.315
139-4.020SS	0.140	4.037	4.317
176-3.975	0.176	3.975	4.327
103-4.150	0.103	4.150	4.356
125-4.109	0.125	4.109	4.359
118-4.134	0.118	4.134	4.370
375-3.622	0.375	3.622	4.372
103-4.169	0.103	4.169	4.375
103-4.175	0.103	4.175	4.381
83-4.226	0.083	4.226	4.392
281-3.844	0.281	3.844	4.406
140-4.127	0.140	4.127	4.407
103-4.204ES	0.103	4.215	4.421
71-4.281	0.071	4.281	4.423
47-4.343	0.047	4.343	4.437
70-4.300	0.070	4.300	4.440
155-4.139	0.155	4.139	4.449
176-4.100	0.176	4.100	4.452
103-4.256	0.103	4.256	4.462
104-4.258	0.104	4.258	4.466
44-4.390	0.044	4.390	4.478
186-4.095SS	0.186	4.107	4.479
104-4.279	0.104	4.279	4.487
500-3.500	0.500	3.500	4.500
140-4.125SS	0.143	4.216	4.502
78-4.266SS	0.079	4.348	4.506
103-4.300ES	0.103	4.311	4.517
211-4.120	0.211	4.120	4.542
111-4.322	0.111	4.322	4.544
224-4.098	0.224	4.098	4.546
140-4.274	0.140	4.274	4.554
103-4.350	0.103	4.350	4.556
103-4.359	0.103	4.359	4.565
30-4.523	0.030	4.507	4.567
176-4.225	0.176	4.225	4.577
60-4.500SS	0.060	4.467	4.587
139-4.300ES	0.139	4.311	4.589
150-4.295	0.150	4.295	4.595
71-4.409VS	0.072	4.455	4.599
103-4.397	0.103	4.397	4.603
400-3.850	0.400	3.850	4.650
140-4.379	0.140	4.379	4.659
500-3.675	0.500	3.675	4.675

Mold IDen	C/S	ID	OD (Ref)
70-4.562	0.070	4.562	4.702
176-4.350	0.176	4.350	4.702
103-4.487ES	0.103	4.498	4.704
103-4.487ES	0.103	4.498	4.704
210-4.304	0.210	4.304	4.724
375-4.006	0.375	4.006	4.756
215-4.331	0.215	4.331	4.761
140-4.508	0.140	4.508	4.788
70-4.672	0.070	4.672	4.812
103-4.612	0.103	4.612	4.818
176-4.475	0.176	4.475	4.827
125-4.600	0.125	4.600	4.850
181-4.488	0.181	4.488	4.850
103-4.609SS	0.104	4.654	4.862
250-4.375	0.250	4.375	4.875
140-4.630	0.140	4.630	4.910
220-4.475	0.220	4.475	4.915
71-4.784	0.071	4.784	4.926
141-4.654	0.141	4.654	4.936
157-4.606ES	0.158	4.620	4.936
500-3.937	0.500	3.937	4.937
313-4.300ES	0.315	4.312	4.942
241-4.475	0.241	4.475	4.957
117-4.750	0.117	4.734	4.968
188-4.976	0.188	4.600	4.976
104-4.783	0.104	4.783	4.991
375-4.250	0.374	4.244	4.992
70-4.864	0.070	4.864	5.004
70-4.890	0.070	4.890	5.030
140-4.755	0.140	4.755	5.035
375-4.250VS	0.379	4.294	5.052
103-4.859	0.103	4.859	5.065
212-4.645	0.212	4.645	5.069
176-4.725	0.176	4.725	5.077
103-4.886ES	0.103	4.898	5.104
103-4.930	0.103	4.930	5.136
140-4.881	0.140	4.881	5.161
159-4.850	0.159	4.850	5.168
71-5.038	0.071	5.038	5.180
219-4.750	0.219	4.750	5.188
212-4.774	0.212	4.774	5.198
375-4.438ES	0.376	4.449	5.201
176-4.850	0.176	4.850	5.202
141-4.928	0.141	4.928	5.210
139-4.910ES	0.140	4.937	5.217
104-5.036	0.104	5.036	5.244

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3800 N. Washington Ave.
Minneapolis, MN 55412

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Mold IDen	C/S	ID	OD	Mold IDen	C/S	ID	OD (Ref)
70-5.114	0.070	5.114	5.254	125-5.531	0.125	5.531	5.781
147-4.984	0.147	4.984	5.278	139-5.503	0.139	5.503	5.781
140-5.006	0.140	5.006	5.286	140-5.512	0.140	5.511	5.791
50-5.163VS	0.050	5.212	5.312	121-5.562	0.121	5.562	5.804
103-5.106	0.103	5.106	5.312	103-5.602	0.103	5.602	5.808
197-4.921	0.197	4.921	5.315	210-5.450	0.208	5.394	5.810
103-5.117	0.103	5.117	5.323	438-4.938	0.438	4.938	5.814
278-4.769	0.278	4.769	5.325	162-5.500	0.162	5.500	5.824
147-4.984SS	0.148	5.031	5.327	70-5.700	0.070	5.703	5.843
241-4.850	0.241	4.850	5.332	97-5.723	0.097	5.723	5.917
103-5.140ES	0.103	5.153	5.359	118-5.689	0.118	5.689	5.925
62-5.250	0.062	5.250	5.374	157-5.512VS	0.160	5.607	5.927
312-4.700ES	0.316	4.754	5.386	71-5.795	0.071	5.795	5.937
168-5.005VS	0.170	5.057	5.397	70-5.740SS	0.071	5.796	5.938
315-4.776	0.315	4.776	5.406	140-5.661	0.140	5.661	5.941
71-5.288	0.071	5.288	5.430	103-5.750ES	0.103	5.765	5.971
140-5.159	0.140	5.159	5.439	500-5.000	0.500	5.000	6.000
50-5.302VS	0.051	5.365	5.467	189-5.650	0.188	5.631	6.007
252-4.905VS	0.255	4.968	5.478	70-5.810SS	0.071	5.865	6.007
103-5.272ES	0.103	5.285	5.491	625-4.812	0.625	4.812	6.062
70-5.360	0.070	5.360	5.500	330-5.319SS	0.335	5.395	6.065
500-4.500	0.500	4.500	5.500	330-5.354SS	0.335	5.431	6.101
103-5.290ES	0.103	5.303	5.509	70-5.968	0.070	5.968	6.108
104-5.305	0.104	5.305	5.513	70-5.910SS	0.071	5.966	6.108
103-5.300ES	0.103	5.313	5.519	118-5.905	0.118	5.905	6.141
70-5.379	0.070	5.379	5.519	197-5.708VS	0.200	5.781	6.181
125-5.270	0.125	5.270	5.520	71-6.048	0.071	6.048	6.190
140-5.253	0.140	5.253	5.533	241-5.725	0.241	5.725	6.207
170-5.118SS	0.172	5.191	5.535	74-6.100	0.074	6.080	6.228
140-5.260	0.140	5.260	5.540	60-6.187	0.060	6.187	6.307
103-5.322ES	0.103	5.336	5.542	70-6.180	0.070	6.180	6.320
118-5.315	0.118	5.315	5.551	140-6.043	0.140	6.043	6.323
79-5.315VS	0.080	5.396	5.556	103-6.125	0.103	6.125	6.331
197-5.197	0.197	5.197	5.591	141-6.064	0.141	6.064	6.346
103-5.380ES	0.103	5.394	5.600	278-5.796	0.278	5.796	6.352
211-5.251	0.211	5.251	5.673	176-5.906SS	0.179	5.996	6.354
71-5.543	0.071	5.543	5.685	103-6.167ES	0.103	6.183	6.389
103-5.483ES	0.103	5.497	5.703	80-6.250	0.080	6.250	6.410
103-5.496ES	0.103	5.510	5.716	71-6.300	0.071	6.300	6.442
104-5.512	0.104	5.514	5.722	70-6.284ES	0.070	6.306	6.446
118-5.492	0.118	5.492	5.728	70-6.309	0.070	6.309	6.449
142-5.466	0.142	5.466	5.750	70-6.310VS	0.070	6.349	6.489
104-5.565	0.104	5.565	5.773	375-5.750	0.375	5.750	6.500
105-5.566	0.105	5.566	5.776	245-6.015	0.245	6.015	6.505
455-4.866	0.455	4.866	5.776	104-6.299	0.104	6.298	6.506
375-5.000SS	0.377	5.023	5.777	224-6.075	0.224	6.075	6.523

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Mold IDen	C/S	ID	OD
112-6.378SS	0.112	6.325	6.549
500-5.562	0.500	5.562	6.562
103-6.380	0.103	6.380	6.586
63-6.400VS	0.064	6.460	6.588
157-6.299	0.157	6.299	6.613
103-6.400ES	0.103	6.416	6.622
139-6.350	0.139	6.350	6.628
139-6.350	0.139	6.350	6.628
103-6.424	0.103	6.424	6.630
70-6.520	0.070	6.520	6.660
80-6.500	0.080	6.500	6.660
211-6.256	0.211	6.256	6.678
256-6.181	0.256	6.172	6.684
94-6.500	0.094	6.500	6.688
71-6.553	0.071	6.553	6.695
91-6.394SS	0.093	6.510	6.696
118-6.378VS	0.120	6.460	6.700
241-6.225	0.241	6.225	6.707
125-6.460	0.125	6.460	6.710
375-5.850VS	0.381	5.950	6.712
103-6.501ES	0.103	6.518	6.724
50-6.567VS	0.050	6.629	6.729
164-6.299SS	0.167	6.395	6.729
45-6.690	0.045	6.667	6.757
104-6.551	0.104	6.551	6.759
210-6.350	0.210	6.350	6.770
258-6.179VS	0.261	6.258	6.780
140-6.516	0.140	6.516	6.796
70-6.687	0.070	6.687	6.827
260-6.325	0.260	6.325	6.845
500-5.750VS	0.509	5.849	6.867
70-6.734	0.070	6.734	6.874
139-6.609	0.139	6.609	6.887
103-6.674ES	0.103	6.691	6.897
47-6.812	0.047	6.812	6.906
139-6.630ES	0.139	6.646	6.924
70-6.722SS	0.071	6.785	6.927
71-6.805	0.071	6.805	6.947
500-6.000	0.500	6.000	7.000
104-6.803	0.104	6.803	7.011
258-6.437VS	0.261	6.520	7.042
103-6.850ES	0.103	6.867	7.073
140-6.797	0.140	6.797	7.077
150-6.650SS	0.153	6.778	7.084
210-6.666	0.210	6.666	7.086
70-6.950	0.070	6.950	7.090

Mold IDen	C/S	ID	OD (Ref)
60-7.000	0.060	7.000	7.120
157-6.830	0.157	6.830	7.144
139-6.850ES	0.139	6.867	7.145
275-6.600	0.275	6.600	7.150
71-7.058	0.071	7.058	7.200
455-6.308	0.455	6.308	7.218
500-6.264	0.497	6.225	7.219
224-6.783	0.224	6.783	7.231
1.062-5.125	1.062	5.125	7.249
104-7.053	0.104	7.053	7.261
160-7.006	0.160	7.006	7.326
140-7.053	0.140	7.053	7.333
312-6.700VS	0.315	6.770	7.400
380-6.640	0.380	6.640	7.400
295-6.835NS	0.294	6.822	7.410
380-6.688	0.380	6.688	7.448
71-7.310	0.071	7.310	7.452
241-6.975	0.241	6.975	7.457
70-7.360ES	0.070	7.371	7.511
104-7.308	0.104	7.308	7.516
103-7.300ES	0.103	7.319	7.525
375-6.650VS	0.381	6.763	7.525
295-6.910SS	0.297	6.964	7.558
520-6.519	0.520	6.519	7.559
272-7.051	0.272	7.051	7.595
437-6.750	0.437	6.750	7.624
500-6.625	0.500	6.625	7.625
70-7.500	0.070	7.500	7.640
103-7.416	0.103	7.435	7.641
71-7.562	0.071	7.562	7.704
241-7.225	0.241	7.225	7.707
28-7.717NS	0.028	7.694	7.750
70-7.613	0.070	7.613	7.753
104-7.560	0.104	7.560	7.768
103-7.583ES	0.103	7.602	7.808
103-7.609	0.103	7.609	7.815
140-7.562	0.140	7.562	7.842
103-7.673ES	0.103	7.692	7.898
139-7.609ES	0.139	7.628	7.906
375-7.125SS	0.377	7.157	7.911
281-7.378	0.281	7.378	7.940
241-7.475	0.241	7.475	7.957
236-7.441	0.238	7.509	7.985
215-7.581	0.215	7.571	8.001
70-7.870	0.070	7.870	8.010
104-7.813	0.104	7.813	8.021

Precision Associates, Inc.
3800 N. Washington Ave.
Minneapolis, MN 55412

Phone: (612) 333-7464
Fax: (612) 342-2417
Toll: (800) 394-6590

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Mold IDen	C/S	ID	OD
103-7.862	0.103	7.862	8.068
103-7.848ES	0.103	7.868	8.074
118-7.784NS	0.118	7.843	8.079
146-7.700SS	0.148	7.817	8.113
278-7.567	0.278	7.567	8.123
103-7.950NS	0.103	7.939	8.145
139-7.850ES	0.139	7.870	8.148
375-7.324SS	0.379	7.409	8.167
103-7.950ES	0.103	7.970	8.176
241-7.725	0.241	7.725	8.207
139-7.950ES	0.139	7.970	8.248
375-7.500	0.375	7.500	8.250
104-8.065	0.104	8.065	8.273
70-8.135ES	0.070	8.148	8.288
103-8.039ES	0.104	8.083	8.291
140-8.023	0.140	8.023	8.303
230-7.829VS	0.231	7.875	8.337
500-7.250ES	0.506	7.339	8.351
241-7.975	0.241	7.975	8.457
199-8.029ES	0.200	8.083	8.483
375-7.733	0.375	7.733	8.483
104-8.277	0.104	8.277	8.485
103-8.282ES	0.103	8.303	8.509
187-8.115ES	0.188	8.147	8.523
500-7.250VS	0.518	7.505	8.541
70-8.400ES	0.070	8.413	8.553
140-8.295	0.140	8.295	8.575
279-8.105	0.279	8.105	8.663
224-8.240	0.224	8.240	8.688
275-8.225	0.275	8.225	8.775
104-8.570	0.104	8.570	8.778
236-8.225VS	0.238	8.306	8.782
118-8.504VS	0.119	8.584	8.822
331-8.197	0.331	8.197	8.859
270-8.240SS	0.273	8.336	8.882
187-8.553	0.186	8.524	8.896
375-8.159	0.375	8.159	8.909
142-8.634	0.142	8.634	8.918
275-8.350ES	0.277	8.404	8.958
375-8.130SS	0.379	8.225	8.983
104-8.780	0.104	8.780	8.988
375-8.250	0.375	8.250	9.000
241-8.475SS	0.243	8.546	9.032
103-8.825ES	0.103	8.847	9.053
210-8.641	0.210	8.641	9.061
103-8.840ES	0.103	8.862	9.068

Mold IDen	C/S	ID	OD (Ref)
388-8.380	0.388	8.380	9.156
103-8.998ES	0.103	9.021	9.227
328-8.500VS	0.331	8.569	9.231
625-8.000	0.625	8.000	9.250
103-9.050	0.103	9.050	9.256
275-8.725	0.275	8.725	9.275
104-9.075	0.104	9.075	9.283
140-9.072	0.140	9.072	9.352
375-8.505SS	0.379	8.604	9.362
312-8.750	0.312	8.750	9.374
103-9.250	0.103	9.250	9.456
104-9.328	0.104	9.328	9.536
323-8.898	0.323	8.898	9.544
70-9.435ES	0.070	9.450	9.590
380-8.812ES	0.381	8.834	9.596
103-9.500ES	0.103	9.524	9.730
70-9.621ES	0.070	9.659	9.799
70-9.650ES	0.070	9.665	9.805
140-9.531	0.140	9.531	9.811
70-9.675ES	0.070	9.690	9.830
625-8.625	0.625	8.625	9.875
272-9.413	0.272	9.413	9.957
139-9.700	0.139	9.700	9.978
202-9.598VS	0.203	9.641	10.047
140-9.782	0.140	9.782	10.062
270-9.421SS	0.273	9.531	10.077
70-9.970	0.070	9.970	10.110
103-9.892ES	0.103	9.917	10.123
103-9.940ES	0.103	9.965	10.171
375-9.312SS	0.379	9.421	10.179
241-9.475SS	0.247	9.713	10.207
103-9.982ES	0.103	10.007	10.213
375-9.250SS	0.384	9.464	10.232
70-9.989VS	0.071	10.112	10.254
215-9.837	0.215	9.837	10.267
159-9.950	0.159	9.950	10.268
103-10.095ES	0.103	10.121	10.327
139-10.048ES	0.139	10.073	10.351
70-10.207ES	0.070	10.223	10.363
374-9.646ES	0.375	9.664	10.413
375-9.600	0.380	9.690	10.450
139-10.178	0.139	10.178	10.456
70-10.232SS	0.071	10.328	10.470
215-10.060	0.215	10.060	10.490
210-10.115ES	0.211	10.141	10.563
104-10.372	0.104	10.372	10.580

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70-10.433ES	0.070	10.459	10.599
241-9.975VS	0.244	10.118	10.606
167-10.186SS	0.169	10.282	10.620
70-10.485	0.070	10.485	10.625
210-10.250	0.210	10.250	10.670
103-10.450ES	0.103	10.487	10.693
210-10.300	0.210	10.300	10.720
210-10.190SS	0.212	10.296	10.720
103-10.449	0.104	10.517	10.725
375-9.881SS	0.379	9.996	10.754
70-10.530SS	0.071	10.629	10.771
71-10.635	0.071	10.635	10.777
140-10.535	0.140	10.535	10.815
103-10.622ES	0.103	10.649	10.855
103-10.500SS	0.105	10.660	10.870
139-10.610	0.139	10.610	10.888
159-10.600	0.159	10.600	10.918
70-10.800ES	0.070	10.817	10.957
351-10.270	0.351	10.270	10.972
103-10.781ES	0.103	10.808	11.014
139-10.734	0.139	10.760	11.038
349-10.199VS	0.354	10.335	11.043
260-10.425SS	0.262	10.523	11.047
157-10.827	0.157	10.827	11.141
103-10.710SS	0.105	10.958	11.168
103-10.984	0.103	10.984	11.190
103-10.964ES	0.103	10.992	11.198
70-11.085ES	0.070	11.102	11.242
275-10.725	0.275	10.725	11.275
256-10.846SS	0.255	10.801	11.311
103-11.120	0.103	11.120	11.326
139-11.034ES	0.139	11.062	11.340
103-11.150ES	0.103	11.178	11.384
103-11.239NS	0.103	11.190	11.396
141-11.120	0.141	11.120	11.402
103-11.096SS	0.104	11.200	11.408
103-11.275ES	0.103	11.275	11.481
375-10.690SS	0.379	10.728	11.486
70-11.339ES	0.070	11.368	11.508
272-10.988	0.272	10.988	11.532
70-11.240SS	0.071	11.423	11.565
380-10.875	0.380	10.875	11.635
103-11.480ES	0.103	11.509	11.715
93-11.500	0.093	11.541	11.727
103-11.897NS	0.103	11.846	12.052
290-11.475ES	0.291	11.532	12.114

Mold IDen	C/S	ID	OD
70-11.989	0.070	11.989	12.129
339-11.654	0.339	11.638	12.316
140-12.073	0.140	12.073	12.353
103-12.155ES	0.103	12.186	12.392
142-12.214	0.142	12.214	12.498
142-12.224	0.142	12.224	12.508
275-12.000	0.275	12.000	12.550
139-12.278	0.139	12.278	12.556
277-12.064	0.277	12.064	12.618
256-12.205	0.255	12.164	12.674
139-12.484	0.139	12.516	12.794
370-12.157	0.368	12.081	12.817
209-12.413	0.209	12.413	12.831
370-12.106	0.370	12.106	12.846
70-12.720	0.070	12.720	12.860
210-12.475	0.210	12.475	12.895
139-12.475VS	0.141	12.653	12.935
103-12.718ES	0.104	12.788	12.996
375-12.250VS	0.376	12.269	13.021
70-13.114ES	0.070	13.134	13.274
139-13.062	0.139	13.062	13.340
139-13.114	0.140	13.114	13.394
139-13.234	0.139	13.234	13.512
139-13.248	0.139	13.248	13.526
312-12.750SS	0.316	12.899	13.531
375-12.750SS	0.379	12.899	13.657
103-13.425ES	0.103	13.459	13.665
224-13.252	0.224	13.252	13.700
139-13.484	0.139	13.484	13.762
210-13.475	0.210	13.475	13.895
210-13.375SS	0.212	13.514	13.938
224-14.146	0.224	14.146	14.594
139-14.484	0.139	14.484	14.762
339-14.189	0.338	14.128	14.804
87-14.470SS	0.088	14.649	14.825
288-14.250SS	0.293	14.515	15.101
500-14.156	0.500	14.156	15.156
197-14.764	0.197	14.764	15.158
104-14.990	0.104	14.990	15.198
225-14.900NS	0.224	14.836	15.284
625-13.875SS	0.630	14.101	15.361
631-14.101	0.631	14.101	15.363
248-15.000	0.247	14.950	15.444
103-15.170VS	0.104	15.259	15.467
139-15.484	0.139	15.484	15.762
103-15.500VS	0.104	15.591	15.799

Precision Associates, Inc.
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Minneapolis, MN 55412

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Fax: (612) 342-2417
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210-15.475	0.210	15.475	15.895
338-15.410	0.338	15.410	16.086
225-15.500SS	0.227	15.646	16.100
1.000-14.430	0.993	14.325	16.311
110-16.186	0.110	16.186	16.406
70-16.268SS	0.070	16.357	16.497
70-16.535	0.070	16.577	16.717
139-16.455	0.139	16.455	16.733
275-16.750	0.274	16.694	17.242
210-16.830	0.210	16.830	17.250
312-16.690	0.311	16.690	17.312
375-16.625	0.375	16.625	17.375
290-16.625SS	0.294	16.830	17.418
139-17.455	0.139	17.455	17.733
1.000-15.735	1.000	15.735	17.735
139-17.480	0.139	17.480	17.758
240-17.250SS	0.245	17.581	18.071
313-18.000	0.313	18.000	18.626
139-18.455	0.139	18.455	18.733
125-18.600	0.125	18.600	18.850
139-18.875	0.139	18.875	19.153
210-19.200	0.210	19.200	19.620
139-19.455	0.139	19.455	19.733
500-19.411	0.500	19.411	20.411
22-20.370	0.022	20.370	20.414
139-20.455	0.139	20.455	20.733
352-20.126	0.352	20.098	20.802
346-20.125	0.346	20.125	20.817
197-20.669	0.196	20.600	20.992
197-20.670	0.196	20.601	20.993
70-20.840SS	0.071	21.077	21.219
124-21.000	0.124	21.000	21.248
197-20.669VS	0.199	20.936	21.334
70-21.270SS	0.071	21.512	21.654
139-21.455	0.139	21.455	21.733
139-21.800SS	0.140	22.014	22.294
212-22.106	0.212	22.106	22.530
210-22.940VS	0.212	23.178	23.602
277-23.098	0.277	23.098	23.652
212-24.104	0.212	24.104	24.528
212-24.188	0.212	24.188	24.612
210-24.625	0.210	24.625	25.045
70-25.570SS	0.071	25.810	25.952
250-25.375VS	0.252	25.614	26.118
210-25.580VS	0.212	25.846	26.270
340-25.275VS	0.344	25.599	26.287

Mold IDen	C/S	ID	OD (Ref)
341-25.984	0.339	25.846	26.524
212-26.209	0.212	26.209	26.633
210-26.940	0.210	26.940	27.360
275-27.485	0.275	27.485	28.035
375-27.250VS	0.377	27.399	28.153
139-27.750SS	0.140	28.291	28.571
275-28.801	0.275	28.801	29.351
275-29.331ES	0.276	29.520	30.072
210-29.880VS	0.212	30.190	30.614
210-33.750VS	0.211	33.949	34.371
275-33.750VS	0.277	33.949	34.503

Precision Associates, Inc.
3800 N. Washington Ave.
Minneapolis, MN 55412

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Fax: (612) 342-2417
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Minneapolis, MN 55412

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3800 North Washington Ave.
Minneapolis, MN 55412-2142

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